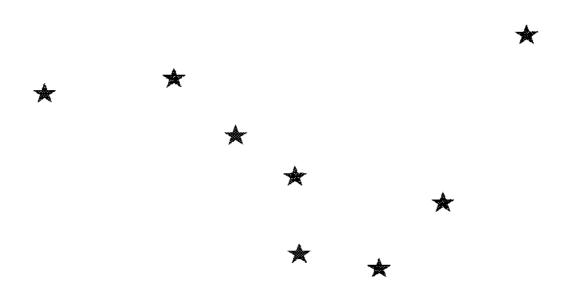


## INTRODUCTORY SECTION



Prepared by: Department of Administration Division of Retirement and Benefits

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#### STATE OF ALASKA

#### PUBLIC EMPLOYEES' RETIREMENT FUND TEACHERS' RETIREMENT FUND Fiscal Year 1988

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#### **DEPARTMENT OF ADMINISTRATION**

OFFICE OF THE COMMISSIONER

P.O. BOX C JUNEAU, ALASKA 99811-0200 PHONE: (907) 465-2200

December 15, 1988

The Honorable Steve Cowper Governor of Alaska P.O. Box A Juneau, AK 99811

Dear Governor Cowper:

It is my pleasure to submit to you the Annual Report of the Alaska Public Employees' Retirement System (PERS) and Teachers' Retirement System (TRS).

This report shows the financial condition of both the PERS and TRS funds as of June 30, 1988. It has been prepared on the basis of standards set forth by the National Council on Governmental Accounting and is submitted in accordance with the requirements of Alaska Statutes 39.35.020(5) (PERS) and 14.25.030(4) (TRS).

Sincerely,

John M. Andrews Commissioner

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#### DEPARTMENT OF ADMINISTRATION

DIVISION OF RETIREMENT & BENEFITS

PLEASE REPLY TO:

☐ P.O.BOX CR ☐ JUNEAU, ALASKA 99811-0203 PHONE: (907)465-4460

☐ 701 EAST TUDOR ROAD, SUITE 240 ANCHORAGE, ALASKA 99503-7445 PHONE: (907) 563-5885 Public Employees Retirement System
Teachers' Retirement System
Judicial Retirement System
Elected Public Officers Retirement System
National Guard Retirement System
Terotorial Retirement System
Retirees' Voluntary Dental-Vision Audio Plan
Supplemental Benefits System
Group Health/Life Insurance Benefits:
Deterred Componsation Plan
Public Employers Social Security Contributions

STEVE COWPER, GOVERNOR

December 15, 1988

Commissioner John M. Andrews Department of Administration P.O. Box C Juneau. AK 99811-0200

Dear Commissioner Andrews:

The Annual Financial Report of the Public Employees' (PERS) and Teachers' (TRS) Retirement Systems is hereby submitted. The information presented in this report shows the results of operations and the financial condition of the two retirement funds for the fiscal year ending June 30, 1988. The financial statements in this report are presented on the accrual basis of accounting in accordance with the Financial Accounting Standards Board, Standard No. 35.

The report contains the financial statements, the audit report from the professional accounting firm of Peat Marwick Main and Company, and excerpts from the most recent actuarial valuations prepared by the system's actuary, William M. Mercer-Meidinger-Hansen, Inc. Also included are the fiscal year investment comments from the Division of Treasury, Department of Revenue, which is charged with the investment of the retirement funds.

The June 30, 1988, net assets available for benefits were \$2,123,694,843 for the PERS, an increase of 5.6 percent over the previous year; and \$1,356,575,271 for the TRS, an increase of 4.1 percent over the previous year.

The graphs on pages 46 and 47 (PERS) and pages 86 and 87 (TRS) demonstrate the increases in total assets and benefits paid in recent years. Additional information for the fiscal years ending June 30, 1986, through June 30, 1988, is provided in the following table:

	FY PERS	1988 TRS	FY PERS	1987 <u>TRS</u>	FY <u>PERS</u>	1986 TRS
Number of participating employers (reporting entit	123	63	117	62	112	61
Number of participating members	26,676	8,218	26,802	7,810	27,643	8,824

N. ml. av. a 6	PERS	Y 1988 TRS	FY <u>PERS</u>	1987 <u>TRS</u>	FY <u>PERS</u>	1986 <u>TRS</u>
Number of retired members	6,702	2,972	5,668	2,401	4,657	2,098
Average Annual	F <u>PERS</u>	Y 1988 TRS	FY <u>PERS</u>	1987 <u>TRS</u>	FY PERS	1986 TRS
Retirement Benefit	\$11,328	\$21,240	\$11,073	\$19,716	\$10,068	\$18,504
Average Annual Medical Benefit	<b>\$1,6</b> 83	\$1,683	\$1,980	<b>\$1,9</b> 80	\$2,100	\$2,100

The PERS and TRS fall 1987 board meetings were held in Anchorage and the spring 1988 meetings were held in Juneau. The boards approved the annual actuarial valuations and employer contribution rates at the spring meetings. The PERS Board also held special meetings to hear member appeals in Anchorage on January 13 and June 23-24, 1988.

The following legislation affecting the retirement systems passed during the 1988 legislative session:

- ° Chapter 76, SLA 1988 (SB 42), amended chapter 26, SLA 1986, to allow eligible TRS members to use territorial and Alaska Bureau of Indian Affairs service credit to qualify for retirement under the Retirement Incentive Program (RIP). The application and retirement deadlines were also extended for eligible members.
- ° Chapter 89, SLA 1988 (HB 353), added language to the PERS and TRS to allow former members to reinstate refunded service credit if their retirement contributions were refunded because of a levy under AS 09.38.065 or a federal tax levy. Because of these amendments, former members are no longer required to be reemployed under the retirement systems to reinstate levied contributions.
- Chapter 106, SLA 1988 (SB 253), made technical improvements to the PERS and TRS. It also removed the deadlines from claiming past temporary service and past peace officer/fireman service with a municipality. New provisions were added to: (1) allow PERS members to claim past "special peace officer" service credit; (2) provide for alternate PERS benefits for eligible Elected Public Officers Retirement System (EPORS) members and their survivors; and (3) allow TRS credit for Alaska Native language or culture service.

° Chapter 141, SLA 1988 (HB 547), (the "Act") is a comprehensive revision of Department of Revenue investment statutes. The department invests all State funds, including the Public Employees', Teachers', Military, and Judicial Retirement Trust Funds.

The Act focuses on trust funds, including retirement and endowment funds. One of the Act's major accomplishments is to place fiduciary duties and standards relating to trust funds into Alaska law and clarify and elevate existing ones.

The other major achievement is the broadening of permissible investments. The Act places investment authority under the elevated standards of care contained in the bill, eliminating narrow legal lists of investments previously in statutes. This increases investment opportunities and permits greater diversification which reduces risk and increases earnings on State funds.

A copy of this report will be mailed to all PERS and TRS employers. The cooperation of those employers is essential to the successful operation of the system.

Sincerely,

Sally Smith

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#### STATE OF ALASKA RETIREMENT FUNDS Combined Statement of Assets June 30, 1988 (In Thousands)

Assets:	Total	Public Employees' Retirement Fund	Teachers' Retirement Fund
Investments, at fair value: Short-term investments United States Government securities Corporate bonds, notes and debentures Common stocks Foreign stocks Real estate equity funds Total investments	\$ 44,264 1,398,275 370,318 916,778 229,667 226,389 \$3,185,691	\$ 23,432 874,896 225,931 556,880 138,421 140,802 \$1,960,362	\$ 20,832 523,379 144,387 359,898 91,246 85,587 \$1,225,329
Loans and mortgages, at cost	\$ 213,074	<u>\$ 114,934</u>	\$ 98,140
Receivables:    Contributions    Retirement Incentive Program    Accrued interest and dividends    Total receivables	\$ 8,208 29,361 41,898 \$ 79,467	\$ 3,406 19,602 26,402 \$ 49,410	\$ 4,802 9,759 15,496 \$ 30,057
Cash in interest-bearing accounts Total assets	\$ 6,351 \$3,484,583	$\frac{$1,710}{$2,126,416}$	\$ 4,641 \$1,358,167
Liability - accrued expenses	4,313	2,721	1,592
Net assets available for benefits	\$3,480,270	\$2,123,695	\$1,356,575



# PUBLIC EMPLOYEE'S RETIREMENT SYSTEM



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### STATE OF ALASKA

# PUBLIC EMPLOYEES' RETIREMENT SYSTEM

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James P. Wellington, Vice-Chair March 7, 1990	
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Michael Andrews June 20, 1994	
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Certified Public Accountants

Peat Marwick Main & Co. Alaska Mutual Bank Building 601 West Fifth Avenue, Suite 700 Anchorage, AK 99501

#### Independent Auditors' Report

Division of Retirement and Benefits and Members of the Alaska Public Employees' Retirement Board State of Alaska Public Employees' Retirement System:

We have audited the accompanying statements of net assets available for benefits of the State of Alaska Public Employees' Retirement System as of June 30, 1988 and 1987, and the related statements of changes in net assets available for benefits for the years then ended and the summary schedule of investments as of June 30, 1988. These financial statements and schedule are the responsibility of the State of Alaska, Department of Administration, Division of Retirement and Benefits. Our responsibility is to express an opinion on these financial statements based on our audits.

We conducted our audits in accordance with generally accepted auditing standards. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatements. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation. We believe that our audits provide a reasonable basis for our opinion.

In our opinion, the financial statements and schedule referred to above present fairly the net assets available for benefits and changes therein as of and for the years ended June 30, 1988 and 1987, in conformity with generally accepted accounting principles.

The analysis of funding progress, and revenues by source and expenses by type supplementary information on Schedules 2 and 3, respectively, are not a required part of the basic financial statements of the State of Alaska, Public Employees' Retirement System but is supplementary information required by the Governmental Accounting Standards Board. We have applied certain limited procedures, which consisted principally of inquiries of management regarding the methods of measurement and presentation of the supplementary information. However, we did not audit this information and express no opinion on it.

Peat Marinoh Main & Co.

September 12, 1988

#### Statements of Net Assets Available for Benefits

June 30, 1988 and 1987

(In thousands)

	1988	1987
Assets:		
Investments, at fair value:		
Short-term investments	\$ 23,432	
United States Government securities	874,896	735,633
Corporate bonds, notes and debentures	225,931	
Common stocks	556,880	604,931
Foreign stocks	138,421	203,400
Real estate equity funds	140,802	
Total investments	1,960,362	1,846,320
Loans and mortgages, at cost, net of allowance for loan losses of \$5,515 in 1988 and \$4,221 in 1987	114,934	134,126
Receivables:		
Contributions	3,406	4,726
Retirement incentive program (note 5)	19,602	-
Accrued interest and dividends	26,402	21,615
Total receivables	49,410	26,341
Cash in interest-bearing accounts	1,710 2,126,416	5,468
Total assets	2,126,416	2,012,255
Liability - accrued expenses	2,721	2,059
Net assets available for benefits	\$ 2,123,695	2,010,196

See accompanying notes to financial statements.

#### Statements of Changes in Net Assets Available for Benefits

#### Years ended June 30, 1988 and 1987

#### (In thousands)

		1988	1987
Additions:			
Investment income:			
Net depreciation in fair value of investments (note 7) Interest Dividends Net realized gains on sale	\$	(112,755) 113,606 23,381 18,775	(27,799) 108,556 13,571 107,886
Total investment income before provision	•		
for losses on loans and mortgages		43,007	202,214
Provision for losses on loans and mortgages		1,294	4,221
Net investment income		41,713	197,993
Out that the time of			
Contributions: State of Alaska and other employers (note 4)		75,072	96,548
Employees (note 4)		65,331	50,758
State of Alaska and other employers - retirement		-	•
incentive program (note 5)		33,695	7,171
Employees - retirement incentive program (note 5)		1,401	1,121
Total contributions		175,499	155,598
Total additions		217,212	353,591
Deductions:			
Benefits paid:			
Retirement		73,964	57,473
Medical		11,376 85,340	10,256
Total benefits paid		05,340	67,729
Refunds to terminated employees		11,409	10,524
Administrative expenses		6,964	4,985
Total deductions		103,713	83,238
Net increase		113,499	270,353
Net assets available for benefits:			
Beginning of year		2,010,196	1,739,843
End of year	\$	2,123,695	2,010,196

See accompanying notes to financial statements.

#### Notes to Financial Statements

June 30, 1988 and 1987

(1) Description of State of Alaska Public Employees' Retirement System (Plan)
The following brief description of the Plan is provided for general information purposes only. Participants should refer to the Plan agreement for more complete information.

#### General

The Plan is the administrator of an agent, multiple-employer public employee retirement system established and administered by the State of Alaska (State) to provide pension benefits for eligible State employees and employees of its local governments. Benefit and contribution provisions are established by State law and may be amended only by the State Legislature. The Plan is considered a part of the State's financial reporting entity and is included in the State's financial reports as a pension trust fund. At June 30, 1988, the number of participating local government employers was:

Municipalities	56
Schools and universities	48
Other	<u>19</u>
Total employers	<u>123</u>

Inclusion in the Plan is a condition of employment for eligible State employees except, as otherwise provided, for elected officers. Any local government in the State may elect to have its permanent general, police and fire department employees covered by the Plan. At June 30, 1987, Plan membership consisted of:

Retirees and beneficiaries currently receiving benefits and terminated employees entitled to benefits but not yet receiving them	7,572
Current employees: General Police and fire	24,443 2,319
Total	34,334
Current employees:     Vested:     General     Police and fire     Nonvested:     General     Police and fire	11,664 1,433 12,779 886
Total	26,762

#### Notes to Financial Statements

Pension Benefits

Employees hired prior to July 1, 1986 with five or more years of credited service are entitled to annual pension benefits beginning at normal retirement age (fifty-five) or early retirement at age fifty. For employees hired after June 30, 1986, the normal and early retirement ages are sixty and fifty-five, respectively. The normal annual pension benefit is equal to 2% of the member's highest three-year average monthly compensation for the first ten years of service, 2-1/4% for the second ten years of service and 2-1/2% for the third ten years of service. All service earned prior to July 1, 1986 will be calculated using the 2% multiplier. Employees with thirty or more years of credited service (twenty years for peace officers and firemen) may retire at any age and receive a normal benefit. Employees retiring prior to January 1, 1987 may elect to receive their pension benefits in the form of a joint and survivor annuity. Beginning January 1, 1987, new retirees must receive their benefits in the form of a joint and survivor annuity unless the member's spouse agrees to another form of benefit. Minimum benefits for employees eligible for retirement are \$25 per month for each year of credited service. Major medical benefits are provided without cost to all members first hired before July 1, 1986. Members first hired after June 30, 1986 may elect major medical benefits.

Death and Disability Benefits

If an active employee dies from occupational causes, the employee's spouse or dependent children receive a monthly pension from the Plan. The amount of the pension changes on the date the employee's normal retirement would have occurred if the employee had lived. The new benefit is based on the employee's average base salary at the time of his/her death and the credited service that would have occurred had the employee lived and continued to work until normal retirement date. Nonoccupational death benefits are paid based on years of service and would consist of either a lump-sum benefit or a joint and survivor option. Active employees who become permanently disabled due to an occupational injury receive disability payments until normal retirement age. At normal retirement age the disabled participants begin receiving normal retirement benefits computed as though they had been employed to normal retirement age with their annual compensation remaining the same as at the time they became disabled.

#### Notes to Financial Statements

#### Effect of Plan Termination

Should the Plan terminate at some future time, its net assets generally will not be available on a pro rata basis to provide participants' benefits. Whether a particular participant's accumulated Plan benefits will be paid depends on the priority of those benefits at that time. Some benefits may be fully or partially provided for by the then existing assets while other benefits may not be provided for at all.

#### (2) Summary of Significant Accounting Policies

#### Basis of Accounting

The Plan's financial statements are prepared using the accrual basis of accounting.

#### Valuation of Investments

- Investments, other than real estate equity funds and loans and mortgages, are carried at market value to reflect their asset values as determined by the last quoted market price at June 30, 1988 and 1987.
- Real estate equity funds are stated at estimated market value as determined by the independent management of the investment accounts. These investments do not have a readily available market and generally represent long-term investments.
- Loans and mortgages are serviced by the institution from which the loan is purchased. The policy of the Plan is to hold these investments until maturity and, accordingly, the investments are stated at cost, less an allowance for estimated loan losses. Loans and mortgages include approximately \$9,148,000 and \$5,443,000 for 1988 and 1987, respectively, of other real estate owned. Other real estate owned represents properties on which the Plan has foreclosed and is holding with the intent to resell.
- The change in fair value of investments for foreign stocks included in the net depreciation in fair value of investments in the statement of changes in net assets available for benefits is based on the net cost of foreign stocks (original cost plus reinvested income gains and losses).
- The investment activity of all common stocks was consolidated on October 1, 1987 with the common stocks of other State funds to form a common stock pool. The activity from October 1, 1987 and the June 30, 1988 balances of this common stock pool are accounted for on a unity-accounting basis.

#### Notes to Financial Statements

The Commissioner of Revenue has the statutory authority to invest the moneys of the Plan. This authority is delegated to investment officers of the treasury division of the Department of Revenue. Alaska Statute provides for the investment in United States Treasury or agency securities; corporate debt securities; preferred and common stock, commercial paper; securities of foreign governments, agencies and corporations; foreign time deposits, gold bullion; futures contracts for the purpose of hedging; real estate investment trusts; deposits within Alaska savings and loans and mutual savings banks; deposits with state and national banks in Alaska, guaranteed loans; notes secured by mortgages; certificates of deposit and banker's acceptances.

The Plan's deposits and investments are categorized below pursuant to the Governmental Accounting Standards Board (GASB) Statement No. 3 and GASB Technical Bulletin No. 87-1 to give an indication of the level of safekeeping risk assumed by the Plan at June 30, 1988.

Deposits

Category 1 - Insured or collateralized with securities held by the State or its custodian in the State's name.

Category 2 - Collateralized with securities held by the pledging financial institution's trust department or custodian in the State's name.

Category 3 - Uncollateralized.

Category 1 - Insured or registered for which the securities are held by the State or its custodian in the State's name.

Category 2 - Uninsured and unregistered investments for which the securities are held by the broker's or dealer's trust department or agent in the State's name.

#### Notes to Financial Statements

Category 3 - Uninsured and unregistered investments for which the securities are held by the broker's or dealer's trust department or agent but not in the State's name.

			ategory thousands 2	<u>)</u>	Market value and carrying value
Deposits - cash	\$	1,710	-	-	1,710
Investments: Repurchase agreements United States Government		23,432	-	-	23,432
securities		874,896	_	-	874,896
Corporate bonds		225,931	-	-	225,931
Common stocks		556 <b>,</b> 880	-	-	556,880
Foreign stocks		-	138,421	-	138,421
Real estate equity funds	_	140,802		<u>-</u>	140,802
	\$ _	,823,651	138,421	<u>-</u>	1,962,072

Treasury investment policy requires that securities underlying the repurchase agreements must have a minimum market value of 102% of the cost of the repurchase agreement. There were no violations of this policy during the dates covered by this statement.

#### Contributions Receivable

Contributions from employees and employers for service through June 30 are accrued. These contributions are considered fully collectible and, accordingly, no allowance for uncollectible receivables is considered necessary.

#### Investment Income Receivable

Investment income receivable represents amounts earned but not yet received as of June 30. These amounts are considered fully collectible and, accordingly, no allowance for uncollectible receivables is considered necessary. Accrued interest on loans and mortgages is not recorded until received.

#### Reclassifications

Certain amounts previously reported have been reclassified to conform with the current year's presentation. The reclassifications have no effect on the previously reported net increase in net assets available for benefits.

#### Notes to Financial Statements

(3) Funding Status and Progress

The amount shown below as "pension benefit obligation" is a standardized disclosure measure of the present value of pension benefits, adjusted for the effects of projected salary increases, estimated to be payable in the future as a result of employee service to date. The measure is the actuarial present value of credited projected benefits and is intended to help users assess the Plan's funding status on a going-concern basis, assess progress made in accumulating sufficient assets to pay benefits when due, and make comparisons among Plans. The measure is independent of the actuarial funding method used to determine contributions to the Plan, discussed in note 4 below.

The pension benefit obligation is determined by an actuary from William M. Mercer-Meidinger Incorporated and is that amount that results from applying actuarial assumptions to adjust the accumulated benefits to reflect the time value of money (through discounts for interest) and the probability of payment (by means of decrements such as for death, disability, withdrawal, or retirement) between the valuation date and the expected date of payment. The significant actuarial assumptions used in the valuations as of June 30, 1987 are as follows:

- a. Actuarial cost method projected unit credit, unfunded accrued benefit liability amortized over twenty-five years, funding surplus amortized over five years.
- b. Mortality basis 1984 Unisex Pension Mortality Table set back one and one-half years.
- c. Retirement age retirement rates based on actual experience.
- d. Interest rate 9% per annum, compounded annually, net of investment expenses.
- e. Health cost inflation 9% per annum.
- f. Salary scale increase of 6.5% for the first five years of employment and 5.5% per year thereafter.
- g. Cost of living allowance (domicile in Alaska) 69% of those receiving benefits will be eligible to receive the cost of living allowance.

#### Notes to Financial Statements

- h. Contribution refunds 100% of those terminating after age thirty-five with five or more years of service will leave their contributions and thereby retain their deferred vested benefit. All others who terminate are assumed to have their contributions refunded.
- i. Asset valuation three-year average ratio between market and book values of assets.

Turnover and disability assumptions are based upon actual historical occurrence rates of the Plan. The foregoing actuarial assumptions are based on the presumption that the Plan will continue. Were the Plan to terminate, different actuarial assumptions and other factors might be applicable in determining the actuarial present value of accumulated benefits.

At June 30, 1987, the assets in excess of pension benefit obligation were \$105.2 million, as follows (in millions):

Net assets available for benefits, at market, as more fully described in note 2	\$ 2,010.2
Pension benefit obligation:	
Retirees and beneficiaries currently receiving	
benefits and terminated employees not yet	
receiving benefits	820.8
Current employees:	
Accumulated employee contributions including	
allocated investment income	216.5
Employer-financed vested	704.3
Employer-financed nonvested	163.4
Total pension benefit obligation	1,905.0
Assets in excess of pension benefit obligation	\$ <u>105.2</u>

The pension benefit obligation increased \$192.3 million during the year ended June 30. 1987 as a result of changes in benefit provisions.

#### Notes to Financial Statements

#### (4) Contributions Required and Contributions Made

Employees' Contributions

Prior to January 1, 1987, employees contributed 4-1/4% of their compensation, except for peace officers and firemen, who contribute 5% of their compensation to the Plan. Beginning January 1, 1987, contribution rates increased to 7.5% for peace officers and firemen and 6.75% for other employees. Present employees' accumulated contributions at June 30, 1988 were \$331,040,000. Employees' contributions earn interest at the rate of 4-1/2% per annum, compounded semiannually. Contributions are collected by employers and remitted to the Plan.

#### Employer Contribution

The Plan's funding policy provides for periodic employer contributions at actuarially determined rates that, expressed as percentages of annual covered payroll, are sufficient to accumulate sufficient assets to pay benefits when due. Employer contribution rates are level percentages of payroll and are determined using the projected unit credit actuarial funding method. The Plan also uses the level percentage of payroll method to amortize the unfunded liability over a twenty-five year period. Funding surpluses are amortized over five years.

Contributions made in accordance with actuarially determined contribution requirements determined through actuarial valuations consist of the following (in thousands):

	1988	<u>1987</u>
State and other: Employers Employee	\$ 75,072 65,331	96,548 50,758
	\$ 140,403	147,306
Normal cost	146,859	141,426
Amortization of unfunded actuarial accrued liability (surplus)	(6,456)	5,880
	\$ 140,403	147,306

The actuarial valuation was performed June 30, 1986 for 1988 and 1987.

#### Notes to Financial Statements

Significant actuarial assumptions used to compute contribution requirements are the same as those used to compute the standardized measure of the pension obligation discussed in note 3 above.

#### (5) Retirement Incentive Program

Legislation passed in May 1986 established a retirement incentive program designed to encourage eligible employees to voluntarily retire in order to reduce personnel service costs. The program was available to eligible State employees until June 30, 1987, eligible University of Alaska employees from October 1, 1986 to September 30, 1987, and all other members from January 1, 1987 to December 31, 1987.

The retirement incentive program receivable represents the reimbursement due from agencies and employers participating in the program and is due in minimum equal annual installments so that the entire balance is paid within three years after the end of the fiscal year in which members retired. Interest on unpaid balances will begin accruing at 7%, compounded semiannually, beginning August 31, 1988. The amount of reimbursement is the actuarial equivalent of the difference between the benefits the member receives after the addition of the retirement incentive under the program and the amount the member would have received without the incentive, less any amount the participant was indebted as part of retiring under the program. Participating peace officers or firemen were indebted 15% and all other members 12.75% of their annual compensation for the calendar year in which the member terminated employment to participate in the program. An outstanding indebtedness at the time a participant was appointed to retirement resulted in an actuarial adjustment to his/her benefit.

The effect of the retirement incentive program on the pension benefit obligation will be fully accounted for in the June 30, 1988 actuarial valuation. Only the effect of program participants retiring on or before June 30, 1987 are included in the June 30, 1987 actuarial valuation.

#### (6) Ten-year Historical Trend Information

Ten-year historical trend information designed to provide information about the Plan's progress made in accumulating sufficient assets to pay benefits when due is presented on Schedules 2 and 3.

#### Notes to Financial Statements

# (7) Investments During 1988 and 1987, the Plan's investments (including investments bought, sold, as well as held during the year) appreciated (depreciated) in value as follows (in thousands):

	1988	1987
United States Government securities Corporate bonds, notes and debentures Common stocks Foreign stocks Real estate equity funds	\$	(34,394) (4,984) (254) 1,661 10,172
	\$ ( <u>112,755</u> )	( <u>27,799</u> )

#### (8) Contingent Liabilities

The Plan was a party to an action contesting application of the early retirement factors adopted by the Plan in the calculation of the pension benefit obligation. The Alaska Supreme Court ruled in 1987 that the Plan must use the most favorable early retirement factor available when a member begins receiving a monthly benefit. While the suit only specifically addressed early retirement factors, other actuarial retirement factors were also affected. As a result of the suit, the Plan's actuary estimates that the actuarial present value of the pension benefit obligation will increase by approximately \$50,000,000, which will result in an increase of approximately 1% in the average annual employer contribution rate. A benefit recalculation project for affected retirees is currently in progress, and it is anticipated that the project will be completed in early fiscal year 1989. Included in retirement benefits in the statement of changes in net assets available for the year ended June 30, 1988 is \$904,000 as a result of recalculations completed through the date of the report. The ultimate effect of the suit on the amount payable to current retirees as a result of not using the most favorable actuarial retirement factors has not been fully determined.

#### Summary Schedule of Investments

June 30, 1988

(In thousands)

	Cost	Market
Short-term investments	\$ 23,432	23,432
United States Government securities	836,644	874,896
Corporate bonds, notes and debentures	228,916	225,931
Common stocks	537,368	556,880
Foreign stocks	77,847	138,421
Real estate equity funds	131,681	140,802
Loans and mortgages, at cost, net of allowance for loan	·	
losses of \$5,515	114,934	114,934
	\$ 1,950,822	2,075,296

Required Supplementary Information Analysis of Funding Progress

(Unaudited)

(In thousands)

						Unfunded pension benefit obligation
Year ended June 30	Net assets available	Pension benefit obligation	Percentage funded	Unfunded pension benefits obligation	Annual covered payroll	as a percentage of covered payroll
1985 1986 1987	\$ 1,295,536 1,739,843 2,010,196	\$ 1,446,672 1,556,610 1,905,005	89.6 <b>%</b> 111.8 105.5	\$ 151,136 (183,233) (105,191)	\$ 830,579 890,092 891,302	18.2% (20.6) ( <u>11.8</u> )

Analysis of the dollar amounts of net assets available for benefits, pension benefit obligation, and unfunded pension benefit obligation in isolation can be misleading. Expressing the net assets available for benefits as a percentage of the pension benefit obligation provides one indication of the plan's funding status on a going-concern basis. Analysis of this percentage over time indicates whether the plan is becoming financially stronger or weaker. Generally, the greater this percentage, the stronger the plan. Trends in unfunded pension benefit obligation and annual covered payroll are both affected by inflation. Expressing the unfunded pension benefit obligation as a percentage of annual covered payroll approximately adjusts for the effects of inflation and aids analysis of the plan's progress made in accumulating sufficient assets to pay benefits when due. Generally, the smaller this percentage, the stronger the plan.

See accompanying notes to required supplementary information.

Required Supplementary Information Revenues by Source and Expenses by Type

(Unaudited)

(In thousands)

		Reven	ues by sourc	e	
Year ended June 30	Employee contributions	Employer contributions	Investment income	Unrealized appreciation (depreciation) in market value	<u>Total</u>
1978	\$ 16,176	38,736	16,757	_	71,669
1979	17,631	47,614	25,389	1,121	91,755
1980	20,898	56,236	37,696	(4,990)	109,840
1981	24,321	71,833	50,633	(23,940)	122,847
1982	28,918	88,332	51,757	(16,725)	152,282
1983	32,595	99,727	86,002	53,099	271,423
1984	36,765	114,245	101,371	(74,541)	177,840
1985	39,577	123,466	112,261	117,733	393,037
1986	42,626	127,727	182,140	159,873	512,366
1987	51,879	103,719	225,792	(27,799)	353,591

	Expenses by type					
	Retirement benefits	Medical benefits	Refunds to terminated employees	Administrative expenses	<u>Total</u>	
1978	\$ 11,006	_	4,346	610	15,962	
1979	13,249	1,698	4,979	808	20,734	
1980	16,051	1,725	5,759	856	24,391	
1981	19,710	3,094	7,802	1,292	31,898	
1982	24,062	3,375	7,205	1,611	36,253	
1983	28,401	4,541	7,683	2,342	42,967	
1984	33,060	6,939	8,923	1,776	50,698	
1985	39,487	9,350	9,553	3,813	62,203	
1986	45,916	9,411	9,165	3,567	68,059	
1987	57,473	10,256	10,524	4,985	83,238	

Contributions were made in accordance with actuarially determined contribution requirements.

See accompanying notes to required supplementary information.

Notes to Required Supplementary Information

Years ended June 30, 1987, 1986, 1985, 1984, 1983, 1982, 1981, 1980, 1979 and 1978

(Unaudited)

All significant accounting policies, benefit provisions and actuarial assumptions are the same for the required supplementary information and the financial statements except as follows:

The Plan was on the cash basis of accounting for the year ended June 30, 1978. Effective July 1, 1978, the Plan adopted the accrual basis of accounting.

The Plan's actuarial funding method for the years ended June 30, 1978 through June 30, 1984 was attained age normal. Effective July 1, 1984, the Plan adopted the projected unit credit actuarial funding method.

Effective July 1, 1980, the Plan adopted new actuarial assumptions. The assumed rate of interest was increased from 6% to 8% per year. The salary scale assumption was changed from 6% per year until age thirty-nine and 5% per year thereafter to 8% for the first five years of employment and 7% thereafter. Health care cost inflation was set at 8%. Turnover and disability assumptions were revised based upon actual experience in 1980 through 1981.

Effective July 1, 1986, the Plan adopted new actuarial assumptions. Actuarial funding surpluses are amortized over five years rather than twenty-five years. The assumed rate of interest was increased from 8% to 9% per year. The salary scale assumption was lowered to 6.5% per year for the first five years of employment and 5.5% per year thereafter, down from 8% and 7%, respectively. Health care cost inflation was increased to 9% rather than 8%. Turnover and disability assumptions were revised based on actual experience in 1981 through 1985.

The Plan's actuarial valuations were performed as of January 1 for 1978, 1979 and 1980.

#### HIGHLIGHTS

This report has been prepared by William M. Mercer Meidinger Hansen, Incorporated to:

- (1) present the results of a valuation of the Alaska Public Employees' Retirement System as of June 30, 1987;
- (2) review experience under the plan for the year ended June 30, 1987;
- (3) determine the contribution rates for the State and for each political subdivision of the State;
- (4) provide reporting and disclosure information for financial statements, governmental agencies, and other interested parties.

The report is divided into two sections. Section 1 describes the basis of the valuation. It summarizes the plan provisions, provides information relating to the plan participants, and describes the funding methods and actuarial assumptions used in determining liabilities and costs.

Section 2 contains the results of the valuation. It includes the experience of the plan during the 1986-87 plan year, the current annual costs, and reporting and disclosure information.

The principle results are as follows:

5 11 St. (	<u>1986</u>	<u>1987</u>
Funding Status as of June 30:		
(a) Valuation Assets*	\$1,587,599	\$1,898,253
(b) Present Value of Accrued Benefits*	1,556,610	1,905,005
<pre>(c) Accrued Benefit Funding Ratio, (a) / (b)</pre>	102.0%	99.6%
Contributions for Fiscal Year	<u>1989</u>	<u>1990</u>
(a) Consolidated Rate	10.20%**	9.23%
(b) Average Past Service Rate	(.82%)	.07%
(c) Average Total Contribution Rate	9.38%	9.30%

<sup>\*</sup> In thousands.

<sup>\*\*</sup> Adjusted for PRPA on July 1, 1986 and legislation.

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In preparing this valuation, we have employed generally accepted actuarial methods and assumptions, in conjunction with employee data provided to us by the plan sponsor and financial information provided by Peat, Marwick, Main & Company, to determine a sound value for the plan liabilities. We believe that this value and the method suggested for funding it are in full compliance with the Governmental Accounting Standards Board, the Internal Revenue Code, and all applicable regulations.

Respectfully submitted,

Robert F. Richardson, ASA

Principal

RFR/GTS/caj/js

March 25, 1988

#### ANALYSIS OF THE VALUATION

The Highlights section shows slight decreases in both the accrued benefit funding ratio and the average total contribution rate when compared with the 1986 valuation. These small changes mask the dramatic changes to PERS in the last year. The effects of HB 252, continued large investment gains, the Retirement Incentive Program (RIP), and the estimated effect of the stock market crash on October 19, 1987, are all discussed below.

#### HB 252

For several years, there has been much discussion concerning an actuarially-funded, guaranteed post-retirement pension adjustment (PRPA) in PERS. In most of the years since 1972, there have been 4% ad hoc PRPA's granted. These ad hoc PRPA's could not be counted upon by the retirees nor were they funded in an actuarially-sound manner. During periods of high inflation, the ad hoc PRPA's were inadequate in preserving pension purchasing power. With passage of HB 252, retirement benefits for those over age 65, and those who are receiving disability benefits, will be increased by 75% of the increase in the Consumer Price Index, up to a maximum of 9% per year. Somewhat smaller PRPA's are provided for other retirees.

HB 252 also provided for modest increases in the pension benefit formula for other than the police/fire members. Instead of a flat 2% for all years of service, the "other" PERS members' benefit, for service after July 1, 1986, is now 2% for the first ten years of service, 2-1/4% for the next ten years, and 2-1/2% for years over 20.

The above improvements to PERS are being funded by an additional 2.5% employee contribution and by several cost-saving provisions. For employees hired after July 1, 1986, the normal retirement age was increased from age 55 to age 60. Retirees must pay for the full monthly premium for retiree medical insurance coverage prior to age 60; 50% of the premium from age 60 to age 65; and none of the premium if they are disabled or after age 65. The extra cost-of-living allowance (COLA) for residing in the State of Alaska was eliminated for retirees under age 65.

#### Retirement Incentive Program

The Retirement Incentive Program (RIP) was established on May 15, 1986 under a House Bill 382. The program was designed to encourage employees who were eligible for the program to retire voluntarily with earlier retirement eligibility or increased benefits. The cost of the program is more than offset by the savings of salary and other benefits provided to an active employee.

To be eligible for the program, an employee must be vested, included in an organizational unit approved for participation, and meet the minimum age and service requirements.

The RIP gives each eligible employee participating in the program three years of incentive credit. The incentive credit is applied in the following order:

- (1) to reduce the age or service requirement for normal or early retirement,
- (2) to reduce the actuarial adjustment for early retirement, and
- (3) to increase the amount of PERS service used to determine the employee's benefit amount.

The cost of the program is shared between the employer and the employee. The cost to the employee is 15% for "police/fire" and 12-3/4% for "all other" of the employee's annual salary in the year of termination. This may be paid in a lump sum or as an indebtedness which will result in an actuarial reduction in the benefit.

The full impact of the RIP will not be reflected in the actuarial valuation until June 30, 1988 when all those employees participating in the program have retired. However, the effect of the program can already be seen by the reduction in the number of active employees and the increase in the number of retired employees shown in Section 1.2.

#### Investment Performance

For the third straight year, the investment return on plan assets has been greater than the actuarial assumption. The rate of return was 14.68% based on valuation assets. This produced a large actuarial gain from investments which almost completely covered the increased liabilities caused by HB 252.

The bull market of the 1980's has played an important role in reaching full funding. On October 19, 1987, the market experienced an unprecedented drop. The full funding status of the plan presented in this valuation does not reflect that drop. Generally speaking, the stock market lost the gains it had made since the beginning of 1987. Not all of the system's assets were subject to this drop. On June 30, 1987, about 41% of the plan assets were in U.S. and foreign equities and 59% of the assets were composed of the book value of government and corporate bonds, cash and receivables, or other investments.

If the impact of the crash were fully reflected in the valuation assets (without the three-year smoothing technique), the funding status would have declined about 10% and the contribution rate would have increased about 2% of payroll. The three-year average smooths losses and helps stabilize the contribution rate which otherwise would tend to fluctuate excessively. Of course, fluctuation of asset values between valuation dates does not affect contribution rates in any manner.

#### Employee Data

Section 1.2 shows statistical data for PERS members. There is a net decrease of almost 900 active members in PERS. Undoubtedly, this decrease reflects the large number of retirements due to the Retirement Incentive Program. As this section shows, the number of retirees increased by almost 1,000 during the year, while the average age of all retirees decreased dramatically from 64.05 down to 60.39. Again, this shows the impact of the RIP on PERS membership. The impact of the RIP can be seen more dramatically in Section 1.4(a). The number of normal service retirements for police/fire members increased from 25 to 91 with a resulting decrease in average age at retirement from 52.11 down to 47.93. For the "Other" PERS members, the number of service retirements increased from 392 to 924 with a resulting decrease in the average age at retirement from 58.31 down to 57.08. The number of new disability and survivor retirements remained approximately the same.

#### Summary

The year ending June 30, 1987 saw more dramatic changes to PERS than perhaps any other year since its inception. Passage of House Bill 252 and the Retirement Incentive Program provided substantial benefit increases to members. In spite of these large benefit improvements during the year, the system remained virtually fully funded, thanks to continued investment performance in excess of our actuarial interest assumption. The funding status of the State of Alaska PERS should be a source of pride and financial security to all members.

#### Section 1.6 ACTUARIAL BASIS

#### Valuation of Liabilities

- A. Actuarial Method Projected Unit Credit. The unfunded accrued benefit liability is amortized over 25 years. Actuarial funding surpluses are amortized over five years.
- B. Method For Accumulated Plan Benefit Values The actuarial present value of accumulated plan benefits (the term used for Financial Accounting Standards Board purposes) and present value of vested accumulated benefits are a measure of plan benefits which have been earned to date. These are not only a valuation of retirement benefits, but also of deferred vested, death benefits, and other ancillary benefits. Earnings and service for benefit purposes which are expected to be earned after the valuation date are excluded from these values.

The actuarial assumptions used to determine these values are identical to those used for the funding purposes.

In estimating accumulated benefits, final average compensation is based on compensation data in the possession of the actuary.

#### C. Actuarial Assumptions -

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- Salary Scale
   5.5% per year for the first five years of employment and 5.5% per year thereafter.
- 3. Health Cost Inflation 9% per year.
- Mortality 1984 Unisex Pension Mortality Table set back 1-1/2 years.
- 5. Turnover

  Based upon the 1981-85 actual total turnover experience. (See Table 1).
- Incidence rates in accordance with Table 2. Post-disability mortality in accordance with rates published by the Pension Benefit Guaranty Corporation to reflect mortality of those receiving disability benefits under Social Security. Disabilities are assumed to be occupational 85% of the time for Police/Fire, 35% for "Others".

#### William M. Mercer-Meidinger-Hansen, Incorporated

Retirement rates based on actual 7. Retirement Age experience in accordance with Table Wives are assumed to be four years 8. Spouse's Age younger than husbands. 100% of those terminating after age Contribution Refunds 9. 35 with five or more years of will leave their contributions in the fund thereby retain their deferred vested benefit. All others who terminate to have are assumed contributions refunded. 69% of those receiving retirement benefits at an age which is eligible for COLA, will receive COLA. 10. COLA No loading for expenses. 11. Expenses

#### Valuation of Assets

Based upon the three-year average ratio between market and book values of the System's assets, except that fixed income investments are carried at book value. Assets are accounted for on an accrued basis.

#### Valuation of Medical Benefits

Medical benefits for retirees are provided by the payment of premiums from the trust fund. A pre-65 cost and lower post-65 cost (due to Medicare) were assumed such that the total rate for all retirees equals the present premium rate. These medical premiums are then increased with the health inflation assumption. The actuarial cost method used for funding retirement benefits is also used to fund health benefits.

### TABLE 1 ALASKA PERS

#### TOTAL TURNOVER ASSUMPTIONS

Select Rates During the Fi of Empl	rst 10 Yea	er ars		Ultimate Rates After the Firs of Emplo	t 10 Years
Police and Fi	re:				
Year of Employment	20-29 A	ge at Hir 30-39	e 40+	<u>Age</u>	<u>Rate</u>
1 2 3 4 5 6 7 8 9	.39 .18 .12 .11 .07 .06 .05 .05	.28 .19 .14 .13 .09 .09 .09 .06 .04	.22 .16 .13 .12 .11 .08 .08 .08 .04	20-29 30-45 46+	.03 .02 .01
Others:					
Year of Employment	20-29 A	ge at Hir <u>30-39</u>	e 40+	<u>Age</u>	Rate
1 2 3 4 5 6 7 8 9	.34 .26 .21 .18 .16 .15 .12 .12	.26 .21 .17 .14 .13 .10 .09 .08	.20 .15 .13 .10 .09 .09 .09 .08	20-45 46+	.065 .05

# TABLE 2 ALASKA PERS DISABILITY RATES ANNUAL RATES PER 1,000 EMPLOYEES

Age	Police & Fire Rate	"Other" Member Rate
20 21 22 23 24 25	.88 .89 .90 .91 .93 .94	.28 .28 .29 .29 .30
26	.95	.30
27	.98	.31
28	1.00	.32
29	1.03	.33
30	1.05	.34
31	1.08	.34
32	1.10	.35
33	1.13	.36
34	1.16	.37
35	1.20	.38
36 37 38 39 40	1.24 1.29 1.34 1.39 1.44	.40 .41 .43 .44
41	1.50	.48
42	1.59	.51
43	1.70	.54
44	1.85	.59
45	2.03	.65
46	2.20	.70
47	2.39	.76
48	2.59	.83
49	2.79	.89
50	3.00	.96
51	3.25	1.04
52	3.58	1.14
53	3.98	1.27
54	4.44	1.42
55	5.00	1.60
56	5.74	1.84
57	6.68	2.14
58	7.63	2.44
59	9.00	2.88
60	10.54	3.37
61	12.19	3.90
62	14.13	4.52
63	16.31	5.22
64	18.63	5.96

TABLE 3

ALASKA PERS

RETIREMENT RATES

<u>Age</u>	Police & Fire Rate	"Other" Member Rate
50 51 52 53 54 55 56 57 58 59 60 61 62 63	.17 .11 .11 .12 .12 .30 .21 .21 .12 .12 .12 .21 .21	.06 .04 .04 .05 .17 .15 .12 .13 .16 .26 .25 .43
64 & Up	1.00	1.00

For ages less than 50, employees are assumed to retire two years after the earliest age they are eligible to retire.

Section 2.3(c) DEVELOPMENT OF AVERAGE	EMPLOYER	CONTRIBUTION	RATE	- FY90
ALL MEMBERS				
TOTAL SYSTEM (in thousa	ands)			

Cons	olidated Rate	
(1)	Total Normal Cost	\$ 143,184
(2)	Total Salaries	891,301
(3)	Normal Cost Rate for All Members, (1) / (2)	16.06%
(4)	Average Member Contribution Rate	6.83%
(5)	Consolidated Rate, (3) - (4)	9.23%
<u>Past</u>	Service Rate	
(1)	Present Value of Accrued Benefits	\$1,905,005
(2)	Valuation Assets	1,898,253
(3)	Total Unfunded Liability, (1) - (2)	6,752
(4)	25-Year Amortization Factor	10.706612
(5)	Past Service Payment, (3) / (4)	\$ 630
(6)	Total Salaries	891,301
(7)	Past Service Rate, (5) / (6)	.07%
Tota	1 Employer Contribution Rate	9.30%

	FISCAL	YEAR ENDED
	June 30, 1988	<u>June 30, 1987</u>
Beginning Equities and Reserves	\$2,010,195,776	\$1,739,843,490
Additions:		
Employees' Contributions		
Akutan, City of	8,726	7,396
Alaska, State of	37,104,571	26,153,495
Alaska Housing Finance Corporation	143,236	77,115
Alaska Municipal League	8,080	7,274
Alaska State Building Authority	266,264	233,082
Alaska Unorganized Borough Schools	-0-	(961)
Alaska, University of	4,150,220	3,491,986
Alaska Geophysical Inst.,		
University of	249,042	176,076
Aleutian Region School District	22,891	24,473
Aleutians East Borough	24,763	-0-
Anchorage, Municipality of	6,105,048	5,256,890
Anchorage Parking Auth.,		
Municipality of	26,105	20,148
Anchorage School District	2,573,427	2,304,781
Annette Island School District	33,632	28,019
Barrow, City of	(23,899)	
Bartlett Memorial Hospital	353,832	1,409,213
Bering Straits School District	189,702	215,824
Bethel, City of	26,563	33,093
Bristol Bay Borough	69,681	61,098
Bristol Bay Borough School District	27,610	26,161
Bristol Bay Coastal Resource Service Area	10,941	-0-
Bristol Bay Housing Authority	17,655	6,180
Chatham School District	26,394	19,680
Chugach Region School District	11,036	6,902
Copper River Region Housing Authority	7,709	1,295
Copper River School District	49,739	38,756
Cordova, City of	106,457	70,237
Cordova Community Hospital	49,183	46,108
Cordova Public Schools	59,606	24,552
Craig, City of	39,330	30,798
Craig School District	4,588	3,600
Dillingham, City of	81,551	53,933
Dillingham City School District	51,865	48,708
Emmonak, City of	23,344	16,847
Fairbanks, City of	649,109	758,556
Fairbanks Municipal Utility System	475,776	376,334
Fairbanks North Star Borough	616,729	539,482
Fairbanks North Star Borough School Dist	rict 916,917	791,836 1,386
Fort Yukon, City of	5,980	
Galena, City of	53,350	48,184

	FISCAL	YEAR ENDED
	June 30, 1988	June 30, 1987
Additions - Continued:		
Employees' Contributions		
O-lana Cita Cabaala	¢ 20.002	\$ 16,437
Galena City Schools	\$ 28,003	
Haines Borough	6,649 69,569	6,647 16,123
Haines, City of	158,151	191,305
Homer, City of	55,487	33,060
Hoonah, City of	21,754	5,358
Hoonah City Schools	4,816	-0-
Hooper Bay, City of Hydaburg City School District	6,210	3,349
Iditarod Area School District	78,831	82,161
Juneau, City and Borough of	1,067,642	(118,974)
Juneau Borough School District	281,052	195,756
Kake, City of	-0-	(21,524)
Kashunamiut School District	23,186	
Kenai, City of	207,579	
Kenai Peninsula Borough	517,832	486,109
Kenai Peninsula Borough School District	379,562	390,670
Ketchikan, City of	358,722	285,182
Ketchikan Gateway Borough	112,100	118,903
Ketchikan Gateway Borough School District	120,380	99,321
King Cove, City of	22,169	22,970
King Cove City School District	27,550	12,444
Klawock, City of	7,486	-0-
Kodiak, City of	270,727	211,960
Kodiak Island Borough	144,340	124,601
Kodiak Island Borough School District	195,263	154,944
Kotzebue, City of	144,557	122,261
Kuspuk School District	58,386	54,537
Lake and Peninsula School District	44,152	45,798
Lower Kuskokwim School District	629,784	540,771
Lower Yukon School District	194,128	175,443
Matanuska-Susitna Borough	307,687	322,139
Matanuska-Susitna Borough School District	564,952	470,895
Nenana, City of	16,221	16,348
Nenana City Schools	14,324	14,550
Nome, City of	97,613	
Nome City Schools	72,267	
Nome Joint Utilities	30,262	
North Pacific Fisheries Management Counci	1 37,035	
North Pole, City of	135,899	
North Slope Borough	2,443,974	
North Slope Borough School District	417,941	
Northwest Arctic Borough	22,286	
Northwest Arctic School District	265,657	242,516

		FISCAL Y	'EAR EN	NDED
	Jun	e 30, 1988	Jur	ne 30, 1987
Additions - Continued:				
Employees' Contributions				
			_	100 700
Palmer, City of	\$	129,308	\$	103,780
Pelican, City of		6,022		6,741
Petersburg, City of		76,318		130,126
Petersburg General Hospital		56,365		41,767
Petersburg Public Schools	•	83,567		-0-
Pribilof Region School District		17,375		12,602
Railbelt School District		30,799		27,397
Ruby, City of		6,726		7,023
Saint Mary's, City of		10,594		9,090
Saint Mary's School District		32,377		22,696
Saint Paul, City of		59,241		49,134
Sand Point, City of		12,797		45,936
Sand Point City School District		9,698		5,430
Saxman, City of		3,124		1,349
Selawick, City of		1,230		709
Seward, City of		105,936		129,715
Seward General Hospital		58,340		54,894
Sitka, City and Borough of		227,748		210,054
Sitka Community Hospital		132,218		90,170
Sitka Borough School District		73,982		75,747
Skagway, City of		9,946		21,205
Skagway City Schools		6,109		-0-
Soldotna, City of		105,027		5,318
Southeast Islands School District		(983)		36,764
Southeast Regional Resource Center		43,519		13,889
Southwest Region Schools		85,212		78,965
Special Education Service Agency		9,263		4,382
Tanana, City of		21,559		13,591
Tanana City_School District		11,460		10,560
Terminated Employers		-0-		23,423
Thorne Bay, City of		16,127		9,720
Unalakleet, City of		13,782		15,935
Unalaska, City of		172,970		136,062
Unalaska City Schools		10,568		7,985
Valdez, City of		362,671		249,429
Valdez City Schools		89,118		97,611
Wainwright, City of		11,988		11,781
Wasilla, City of		42,982		22,959 40,694
Whittier, City of		42,492		124,052
Wrangell, City of		121,096 23,057		2,859
Wrangell City Schools		53,980		38,047
Yukon Flats School District		80,598		64,852
Yukon-Koyukuk School District		00,000	_	071002
Total Employees' Contributions	\$	66,745,244	\$	51,827,625

		YEAR ENDED
	June 30, 1988	June 30, 1987
Additions - Continued:		
Employers' Contributions		
Akutan, City of	\$ 8,704	\$ 10,664
Alaska, State of	58 <b>,289,249</b>	64,563,489
Alaska Housing Finance Corporation	(85)	6,487
Alaska Municipal League	8,395	10,716
Alaska State Building Authority	447,592	456,047
Alaska, University of	2,219,107	3,490,741
Alaska Geophysical Inst.,		
University of	114,363	78,372
Aleutian Region School District	(2,515)	2,515
Aleutians East Borough	2,524	-0-
Anchorage, Municipality of	8,646,187	11,676,701
Anchorage Parking Auth.,		
Municipality of	31,365	8,900
Anchorage School District	4,053,217	5,227,693
Annette Island School District	50,654	41,287
Barrow, City of	37,672	16,564
Bartlett Memorial Hospital	<b>445,</b> 230	343,503
Bering Straits School District	290,893	285,217
Bethel, City of	49,087	53,644
Bristol Bay Borough	40,220	92,738
Bristol Bay Borough School District	38,567	49,991
Bristol Bay Coastal Resource Service Area		-0-
Bristol Bay Housing Authority	39,829	9,475
Chatham School District	24,811	24,157
Chugach Region School District	(3,398)	334
Copper River Region Housing Authority	15,761	2,628
Copper River School District	(26)	15,712
Cordova, City of	228,102	182,570
Cordova Community Hospital	17,968	(17,942)
Cordova Public Schools	57,327	66,574
Craig, City of	25,029	5,331
Craig School District	10,519	7,781
Dillingham, City of	35,699	42,507
Dillingham School District	130,272	72,675
Emmonak, City of	11,440	38,777
Fairbanks, City of	1,296,315	1,876,267
Fairbanks Municipal Utility System	909,237	1,092,135
Fairbanks North Star Borough	134,476	316,477
Fairbanks North Star Borough School Distr		468,071
Fort Yukon, City of	-0-	106
Galena, City of	84,747	69,192
Galena City Schools	2,375	6,680
Haines Borough	11,743	-0-

		FISCAL	YEAR ENDED	
	June	30, 1988	June 30, 1987	
Additions - Continued:				
Employers' Contributions				
Unimpo City of	\$	12,918	\$ (62)	
Haines, City of	Ψ	233,738	1,472,633	
Homer, City of Hoonah, City of		50,335	54,019	
		41,378	28,087	
Hoonah City Schools Hooper Bay, City of		7,664	-0-	
Hydaburg City School District		988	3,184	
Iditarod Area School District		61,943	48,951	
Juneau, City and Borough of		1,284,039	1,365,412	
Juneau Borough School District		376,986	440,282	
Kake, City of		-0-	2,788	
Kashunamiut School District		34,192	30,968	
Kenai, City of		173,153	229,030	
Kenai Peninsula Borough		655,780	784,125	
Kenai Peninsula Borough School District		795,103	849,415	
Ketchikan, City of		715,363	1,410,612	
Ketchikan Gateway Borough		75,330	227	
Ketchikan Gateway Borough School District		260,386	200,168	
King Cove, City of		2,269	773	
King Cove City School District		6,648	19,531	
Klawock, City of		20,002	-0-	
Kodiak, City of		693,755	468,165	
Kodiak Island Borough		197,428	78,480	
Kodiak Island Borough School District		337,198	185,368	
Kotzebue, City of		27,771	103,048	
Kuspuk School District		35,018	34,196	
Lake and Peninsula School District		48,201	1,835	
Lower Kuskokwim School District		263,076	68,223	
Lower Yukon School District		307,799	228,266	
Matanuska-Susitna Borough		331,034	435,328	
Matanuska-Susitna Borough School District		680,748	794,522	
Nenana, City of		11,026	(250)	1
Nemana City Schools		18,801	31,991	
Nome, City of		129,660	155,637	
Nome City Schools		124,241 7	166,379 397	
Nome Joint Utilities	,	(1,147)	1,278	
North Pacific Fisheries Management Counci	I	86,969	55,452	
North Pole, City of		17,925	(5,008)	)
North Slope Borough North Slope Borough School District		284,077	218,003	r
Northwest Arctic Borough		35,537	24,689	
Northwest Arctic School District		(15,741)	18,044	
MOLCHMERE WICELE REMOOT NIRE LEE		13/	,-,	

	FISCAL	YEAR ENDED
	June 30, 1988	June 30, 1987
Additions - Continued:		
Employers' Contributions		
Balman City of	¢ 107 272	¢ 220 017
Palmer, City of	\$ 197,372 11,780	\$ 229,817 13,961
Pelican, City of Petersburg, City of	268,548	417,659
Petersburg General Hospital	114,554	128,493
Petersburg Public Schools	27,614	-0-
Pribilof Region School District	(32)	(1,404)
Railbelt School District	15,463	34,502
Ruby, City of	8,623	12,097
Saint Mary's, City of	23,301	23,551
Saint Mary's School District	107,825	92,202
Saint Paul, City of	39,922	4,340
Sand Point, City of	12	7,997
Sand Point City School District	(546)	4,214
Saxman, City of	4,758	2,976
Scammon Bay	-0-	(8,906)
Selawick, City of	1,858	1,220
Seward, City of	193,281	233,644
Seward General Hospital	184,379	151,819
Sitka, City and Borough of	545,493	647,688
Sitka Community Hospital	18,720	259
Sitka Borough School District	55,745	189,214
Skagway, City of	39,208	42,783
Skagway City Schools	16,299	-0-
Soldotna, City of	254,984	227,630
Southeast Islands School District	28,173	8,621
Southeast Regional Resource Center	-0- 20 471	(215)
Southwest Region Schools	39,471	(43)
Special Education Service Agency Tanana, City of	13,997 (5,068)	7,504
Tanana City School District	(16,267)	3,642 6,544
Terminated Employers	-0-	-0-
Thorne Bay, City of	18,711	14,008
Unalakleet, City of	4,176	4,559
Unalaska, City of	(28,306)	(1,426)
Unalaska City Schools	10,733	13,888
Valdez, City of	158,968	191,283
Valdez City Schools	83,654	83,711
Wainwright, City of	11,917	13,964
Wasilla, City of	36,811	16,993
Whittier, City of	37,992	42,541
Wrangell, City of	167,788	164,182
Wrangell City Schools	32,594	45,102

	FISCAL YE	
	June 30, 1988	June 30, 1987
Additions - Continued: Employers' Contributions		
Yukon Flats School District Yukon-Koyukuk School District	\$ 945 (223)	\$ 316 -0-
Total Employers' Contributions	\$ 89,145,230	\$ 103,769,892
Investment Income	155,760,974	230,013,445
Market Value Adjustment	(112,754,906)	(27,799,173)
RIP Receivable	19,608,377	-0-
Total Additions	\$ 218,504,919	\$ 357,811,789
Equities, Reserves and Additions	\$2,228,700,695	\$2,097,655,279
Deductions: Administrative Expenses Personal Services Travel and Moving Contractual Services Supplies and Materials Machinery/Equipment Grants/Interagency Services Total Administrative Services	908,598 29,616 405,192 9,694 39,627 5,571,220	969,192 36,861 446,940 11,758 14,694 3,505,528
Employees' Contributions and Interest Refunded Provision for Loan Losses Medical Benefit Expenses Retirement Benefits Paid	11,409,300 1,293,555 11,376,159 73,962,891	10,524,697 4,221,000 10,255,570 57,473,263
Total Deductions	\$ 105,005,852	\$ 87,459,503
Ending Equities and Reserves - Adjusted	\$2,123,694,843	\$2,010,195,776

STATE OF ALASKA PUBLIC EMPLOYEES' RETIREMENT SYSTEM Benefit Payments Breakdown Fiscal Year 1988

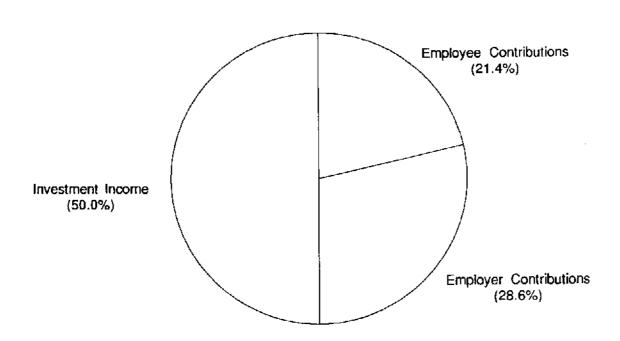
Benefit Type	Total All Categories	Regular Retirees	Peace Officer Retirees	Fireman Retirees	*Elected Off. Retirees
Base Benefits Cost of Living Allowance Non-Occupational Deaths Occupational Deaths Disability Benefits Post Retirement Pension Adjustments Voluntary Annuities Lump Sum Benefits Medical Benefits Totals by Membership Category Total all Benefits	\$56,964,792 4,895,059 1,500,902 333,623 1,991,927 7,445,463 5,419 319,460 11,166,500 \$84,623,145	\$49,826,486 4,258,821 1,407,250 150,539 1,352,880 6,656,256 5,419 319,460 10,476,839 \$74,453,950	\$5,969,850 519,663 50,280 163,356 494,393 616,752 616,752 531,022 531,022	\$1,086,077 103,381 33,805 19,728 144,654 158,555 -0- 116,892 \$1,663,092	\$82,379 13,194 9,567 -0- 13,900 -0- 41,747 \$160,787
Retirees (6/30/88)	6,687	6,274	318	70	25

\* Active and Retired Elected Public Officers as of October 13, 1976, were mandatorily transferred to the Elected Public Officers Retirement System (EPORS), which was established by legislation on January 1, 1976. Under current legislation, all other elected officials may participate in the PERS or the TRS, or do not participate at their option.

### PUBLIC EMPLOYEES' RETIREMENT SYSTEM

Year Ended June 30, 1988

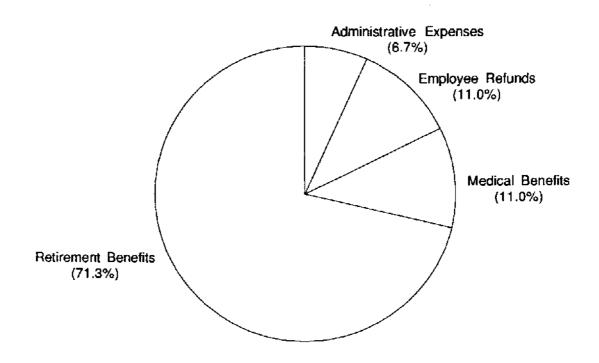
Income and Receipts \$311,651,448



#### PUBLIC EMPLOYEES' RETIREMENT SYSTEM

Year Ended June 30, 1988

Disbursements \$103,712,297



STATE OF ALASKA
PUBLIC EMPLOYEES' RETIREMENT FUND
Historical Data
Fiscal Years 1977 through 1988
(cents omitted)

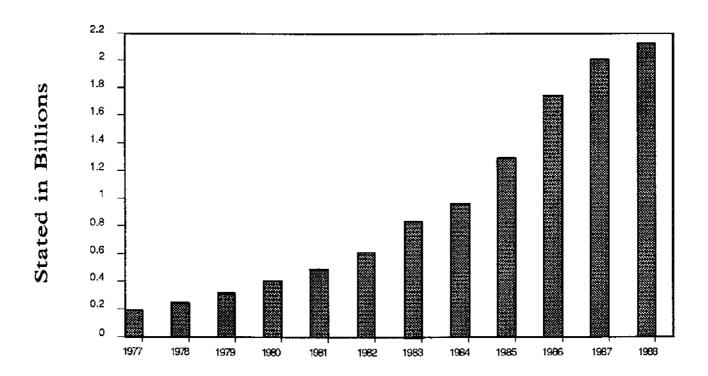
rent re re Year	,465	,594	7,371	688,6	5,085	8,749	9,413	2,192	1,296	000,0	3,272	41,712,513
Net Investment Income During Fiscal Year	12,602,465	16,612,594	25,177,371	37,489,889	50,366,085	51,408,749	85,609,413	100,972,192	112,261,296	182,140,000	197,993,272	41,71
Employees' Contributions and Interest Refunded During	3,816,748	4,345,592	4,978,848	5,759,464	7,006,149	7,192,268	7,682,104	8,888,000	9,553,211	9,165,313	10,524,697	11,409,300
Benefits Paid Including Medical Expenses & Death Benefits	7,607,162	11,005,738	14,947,478	17,775,811	22,803,960	27,438,183	32,942,505	39,998,747	48,836,818	55,326,284	67,728,833	85,339,050
Employees' Contributions During Fiscal Year	13,438,538	16,176,433	17,631,003	20,898,263	24,321,437	28,918,210	32,594,208	36,764,836	39,577,155	42,626,327	51,879,240	66,745,244
Employers' Contributions During Fiscal Year	34,881,182	38,735,575	47,613,575	56,236,318	71,832,706	88,332,287	99,726,866	114,245,148	123,465,277	127,726,698	103,718,277	89,145,230
Assets Fiscal Year End	190,954,572	246,662,043	316,675,507	402,125,897	493,075,440	609,103,807	837,559,610	964,702,019	1,295,535,618	1,739,843,490	2,010,195,776	2,123,694,843
Fiscal	1977	1978	* 1979	1980	1981	1982	1983	1984	1985	1986	1987	1988

\* Figures presented on an accrual basis effective FY 1979.

### PUBLIC EMPLOYEES' RETIREMENT SYSTEM

Total Assets

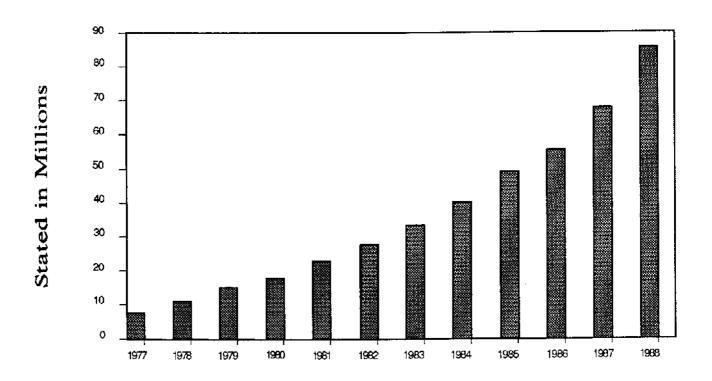
Fiscal Years 1977 through 1988



#### PUBLIC EMPLOYEES' RETIREMENT SYSTEM

Benefits Paid

Fiscal Years 1977 through 1988



# STATE OF ALASKA PUBLIC EMPLOYEES' RETIREMENT FUND Employer Contribution Rates Fiscal Year 1988

Employer	<u>Percentage</u>
Akutan	7.02
Alaska, State of Policemen, Firemen All Other Employees Alaska Housing Finance Corporation Alaska Municipal League Alaska State Building Authority Alaska, University of	13.05 9.65 0.00 9.14 11.99 4.55
Alaska Geophysical Institute, University of Aleutian Region School District Aleutians East Borough Anchorage, Municipality of Anchorage Parking Authority,	4.55 0.00 10.20 10.60
Municipality of Anchorage School District Annette Island School District Barrow, City of Bartlett Memorial Hospital Bering Straits School District	8.11 11.26 10.08 7.12 8.66 8.01
Bethel, City of Bristol Bay Borough Bristol Bay Borough School District Bristol Bay Coastal Resource Service Area Bristol Bay Housing Authority Chatham School District	10.28 5.88 11.23 12.34 11.33 6.30 0.00
Chugach Regional School District Copper River Basin Regional Housing Authority Copper River School District Cordova, City of Cordova Community Hospital Cordova Public Schools	13.80 0.00 16.03 2.29 13.25 4.91
Craig, City of Craig School District Dillingham, City of Dillingham City School District Emmonak, City of Fairbanks, City of Fairbanks Municipal Utility System	16.38 3.24 16.20 11.91 13.67 13.67
Fairbanks North Star Borough Fairbanks North Star Borough School District Fort Yukon, City of Galena, City of Galena City Schools Haines Borough Haines, City of Homer, City of Hoonah, City of	1.46 1.46 0.00 10.71 3.25 13.79 1.98 10.20 9.39

# STATE OF ALASKA PUBLIC EMPLOYEES' RETIREMENT FUND Employer Contribution Rates Fiscal Year 1988

#### Continued

Employer	<u>Percentage</u>
Hoonah City Schools	12.92
Hooper Bay, City of	10.20
Hydaburg City School District	0.00
Iditarod Area School District	5.45
Juneau Borough School District	10.54
Juneau, City and Borough of	8.66
Kashunamiut School District	<b>9.</b> 51
Kenai, City of	5.40
Kenai Peninsula Borough	10.68
Kenai Peninsula Borough School District	13.67
Ketchikan, City of	15. <del>9</del> 6
Ketchikan Gateway Borough	6.35
Ketchikan Gateway Borough School District	14.39
King Cove, City of	0.00
King Cove City School District	1.89
Klawock, City of	18.66
Kodiak, City of	12.98
Kodiak Island Borough Kodiak Island Borough School District	9.20
Kotzebue, City of	6.24
Kuspuk School District	0.54
Lake and Peninsula School District	4.35
Lower Kuskokwim School District	3.62 3.48
Lower Yukon School District	9.90
Matanuska-Susitna Borough	8.12
Matanuska-Susitna Borough School District	8.12
Nenana, City of	4.61
Nenana City Public Schools	9.67
Nome, City of	9.45
Nome City Schools	12.13
Nome Joint Utilities	0.00
North Pacific Fisheries Management Council	0.00
North Pole, City of	9.12
North Slope Borough	0.00
North Slope Borough School District	3.91
Northwest Arctic Borough	10.20
Northwest Arctic School District	0.00
Palmer, City of	12.90
Pelican, City of	12.47
Petersburg, City of Petersburg Gongral Hospital	14.52
Petersburg General Hospital Petersburg Public Schools	14.52
Pribilof Region School District	14.52 0.00
Railbelt School District	3.39
Ruby, City of	10.20
	*******

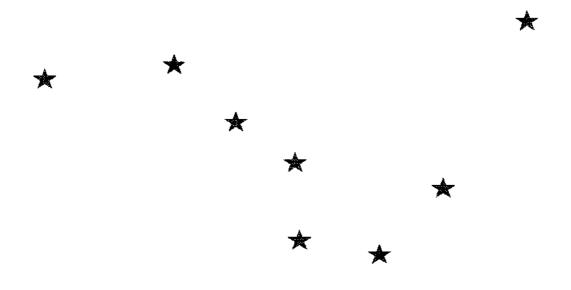
# STATE OF ALASKA PUBLIC EMPLOYEES' RETIREMENT FUND Employer Contribution Rates Fiscal Year 1988

Continued	mployer	Percentage
<u>u</u>	iiip royer	rereemeage
Saint Mary's, City of		16.42
Saint Mary's School District		22.56
Saint Paul, City of		4.75
Sand Point, City of		0.59
Sand Point City School District		0.00
Saxman, City of		11.54
Selawik, City Council		10.20
Seward, City of		9.74
Seward General Hospital		19.04
Sitka, City and Borough of		15.03
Sitka Community Hospital		1.05
Sitka Borough School District		5.44
Skagway, City of		10.25
Skagway City School District		18.01
Soldotna, City of		16.22
Southeast Islands School Distri	ct	6.65
Southeast Regional Resource Cen	ter	0.00
Southwest Region Schools		0.00
Special Education Service Agenc	y	10.20
Tanana, City of		0.00
Tanana City School District		8.82
Thorne Bay, City of		7.86
Unalakleet, City of		16.36
Unalaska, City of		0.00
Unalaska City Schools		6.66
Valdez, City of		4.45
Valdez City Schools		6.37
Wainwright, City of		11.30
Wasilla, City of		7.09
Whittier, City of		6.97
Wrangell, City of		9.86
Wrangell City Schools		10.53
Yukon Flats School District		0.00
Yukon-Koyukuk School District		0.00

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# TEACHERS' RETIREMENT SYSTEM



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# TEACHERS' RETIREMENT SYSTEM

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Dorothy Wells, Vice-Chair	June 30, 1990
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Garris (Bob) Covington	January 31, 1991
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Merritt C. Olson	January 31, 1989
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Stephanie Winsor	June 30, 1990
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### **KPMG** Peat Marwick

Certified Public Accountants

Peat Marwick Main & Co.
Alaska Mutual Bank Building
601 West Fifth Avenue, Suite 700
Anchorage, AK 99501

#### Independent Auditors' Report

Division of Retirement and Benefits and Members of the Alaska Teachers' Retirement Board State of Alaska Teachers' Retirement System:

We have audited the accompanying statements of net assets available for benefits of the State of Alaska Teachers' Retirement System as of June 30, 1988 and 1987, and the related statements of changes in net assets available for benefits for the years then ended, and the summary schedule of investments as of June 30, 1988. These financial statements and schedule are the responsibility of the management of the State of Alaska, Department of Administration, Division of Retirement and Benefits. Our responsibility is to express an opinion on these financial statements based on our audits.

We conducted our audits in accordance with generally accepted auditing standards. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation. We believe that our audits provide a reasonable basis for our opinion.

In our opinion, the financial statements and schedule referred to above present fairly the net assets available for benefits and changes therein as of and for the years ended June 30, 1988 and 1987, in conformity with generally accepted accounting principles.

The analysis of funding progress, and revenues by source and expenses by type supplementary information on Schedules 2 and 3, respectively, are not a required part of the basic financial statements of the State of Alaska Teachers' Retirement System but is supplementary information required by the Governmental Accounting Standards Board. We have applied certain limited procedures which consisted principally of inquiries of management regarding the methods of measurement and presentation of the supplementary information. However, we did not audit this information and express no opinion on it.

Peat Marwick Main & Co.

September 12, 1988

#### Statements of Net Assets Available for Benefits

June 30, 1988 and 1987

(In thousands)

	1988	1987
Assets:		
Investments, at fair value:		
Short-term investments	\$ 20,832	2,800
United States Government securities	523,379	
Corporate bonds, notes and debentures	144,387	116,438
Common stocks	359,898	392,601
Foreign stocks	91,246	134,420
Real estate equity funds	85,587	
Total investments	1,225,329	1,167,829
Loans and mortgages, at cost, net of allowance for loan losses of \$4,876 in 1988 and \$3,694 in 1987	98,140	112,421
Receivables:		
Contributions	4,802	7,935
Retirement incentive program (note 5)	9,759	40 400
Accrued interest and dividends	15,496	13,188
Total receivables	30,057	21,123
Cash in interest-bearing accounts Total assets	4,641 1,358,167	4,017 1,305,390
Liability - accrued expenses	1,592	1,926
Net assets available for benefits	\$ 1,356,575	1,303,464

See accompanying notes to financial statements.

#### Statements of Changes in Net Assets Available for Benefits

#### Years ended June 30, 1988 and 1987

#### (In thousands)

		1988	1987
Additions:			
Investment income:			
Net depreciation in fair value of investments			
(note 7)	\$	(75,566)	(15,677)
Interest	•	72,753	69,076
Dividends		15,156	8,734
Net realized gains		13,512	69,576
Total investment income before provision	-	<del></del>	
for losses on loans and mortgages		25,855	131,709
Provision for losses on loans and mortgages		1,182	3,694
Net investment income	_	24,673	128,015
Contributions:			
State of Alaska (note 4)		-	26,856
Employers (note 4)		51,284	28,959
Employees (note 4)		31,384	32 <b>,</b> 05 <b>8</b>
Employers - retirement incentive program (note 5)		18,079	2,362
Employees - retirement incentive program (note 5)	_	1,720	2,101
Total contributions	_	102,467	92,336
Total additions	_	127,140	220,351
Deductions:			•
Benefits paid:			
Retirement		60,939	46,183
Medical	_	5,040	4,613
Total benefits paid		65,979	50,796
Refunds to terminated employees		3,798	4,239
Administrative expenses	_	4,252	3,502
Total deductions	-	74,029	58,537
Net increase		53,111	161,814
Net assets available for benefits:			4 Ali A 6 m -
Beginning of year	-	1,303,464	1,141,650
End of year	\$ _	1,356,575	1,303,464

See accompanying notes to financial statements.

#### Notes to Financial Statements

June 30, 1988 and 1987

(1) Description of State of Alaska Teachers' Retirement System (Plan)
The following brief description of the Plan is provided for general information purposes only. Participants should refer to the Plan agreement for more complete information.

#### General

The Plan is the administrator of a cost-sharing, multiple-employer public employee retirement system established and administered by the State of Alaska (State) to provide pension benefits for teachers and other eligible participants. Benefit and contribution provisions are established by State law and may be amended only by the State Legislature. The Plan is considered a part of the State financial reporting entity and is included in the State's financial reports as a pension trust fund. At June 30, 1988, the number of participating local government employers was:

School	districts	<b>;</b>	56
Other			8
	Total e	mployers	<u>64</u>

Any local government in the State may elect to have its permanent employees who are required to possess a valid State teaching certificate covered by the Plan. At June 30, 1987, Plan membership consisted of:

Retirees and beneficiaries currently receiving benefits and terminated employees entitled to benefits but not	
yet receiving them	3,153
Current employees:	
Vested	4,196
Nonvested	3,601
	10,950

#### Pension Benefits

General employees with eight or more years of credited service are entitled to annual pension benefits beginning at normal retirement age (fifty-five) equal to 2% of their highest three-year average monthly compensation for each year of service. The Plan permits early retirement at age fifty. Employees may elect to receive their pension benefits in the form of a joint and survivor annuity. Effective January 1, 1987, a married member who retires must receive his/her benefit in the form of a joint and survivor annuity unless the member's spouse consents to another form of benefit. Minimum benefits for employees eligible for retirement are \$25 per month for each year of credited service. In addition, major medical benefits are provided.

#### Notes to Financial Statements

Death and Disability Benefits

If an active employee, first hired under the Plan before July 1, 1982, is participating in the supplemental contribution provision, dies and is survived by a dependent child or children, the employee's spouse and children receive a survivor's allowance from the Plan. The amount of the survivor's allowance is determined by the participant's base salary and the number of dependent children. If an active employee was first hired under the Plan on or after July 1, 1982, is not participating in or eligible for coverage under the supplemental contribution provision and dies from an occupational cause, the spouse or beneficiary will receive a monthly pension from the Plan. The amount of the pension changes on the date the employee's normal retirement would have occurred if the employee had lived. The new benefit is based on the employee's average base salary at the time of his/her death and the credited service that would have accrued if the employee had lived and continued to work until normal retirement age.

If an employee with five or more paid up years of membership service is not eligible for normal retirement benefits and becomes permanently disabled, the employee is entitled to a monthly benefit. The annual disability benefit is equal to 50% of the base salary at time of disablement plus an additional 10% of his/her base salary for each dependent child up to a maximum of four children.

Effect of Plan Termination

Should the Plan terminate at some future time, its net assets generally will not be available on a pro rata basis to provide participants' benefits. Whether a particular participant's accumulated Plan benefits will be paid depends on the priority of those benefits at that time. Some benefits may be fully or partially provided for by the then existing assets while other benefits may not be provided for at all.

#### (2) Summary of Significant Accounting Policies

Basis of Accounting

The Plan's financial statements are prepared using the accrual basis of accounting.

Valuation of Investments

Investments, other than real estate equity fund and loans and mortgages, are carried at market value to reflect the asset values of the Plan as determined by the last quoted sales price at June 30, 1988 and 1987.

#### Notes to Financial Statements

- Real estate equity funds are stated at estimated market value as determined by the independent management of the investment accounts. These investments do not have a readily available market and generally represent long-term investments.
- Loans and mortgages are serviced by the institution from which the loan is purchased. The policy of the Plan is to hold these investments until maturity and, accordingly, the investments are stated at cost, less an allowance for estimated loan losses. Loans and mortgages include approximately \$9,191,000 and \$5,915,000 for 1988 and 1987, respectively, of other real estate owned. Other real estate owned represents properties on which the Plan has foreclosed and is holding with the intent to resell.
- The change in fair value of investments for foreign stocks included in the net depreciation in fair value of investments in the statement of changes in net assets available for benefits is based on the net cost of foreign stocks (original cost plus reinvested investment income gains and losses).
- The investment activity of all common stocks was consolidated October 1, 1987 with the common stocks of other State funds to form a common stock pool. The activity from October 1, 1987 and the June 30, 1988 balances of this common stock pool are accounted for on a unit-accounting basis.
- The Commissioner of Revenue has the statutory authority to invest the moneys of the Plan. This authority is delegated to investment officers of the Treasury Division of the Department of Revenue. Alaska Statute provides for the investment in United States Treasury or agency securities; corporate debt securities; preferred and common stock, commercial paper; securities of foreign governments, agencies and corporations; foreign time deposits, gold bullion; futures contracts for the purpose of hedging; real estate investment trusts; deposits within Alaska savings and loans and mutual savings banks; deposits with state and national banks in Alaska, guaranteed loans; notes secured by mortgages; certificates of deposit and banker's acceptances.

#### Notes to Financial Statements

The Plan's deposits and investments are categorized below pursuant to the Governmental Accounting Standards Board (GASB) Statement No. 3 and GASB Technical Bulletin No. 87-1 to give an indication of the level of safekeeping risk assumed by the Plan at June 30, 1988.

#### Deposits

Category 1 - Insured or collateralized with securities held by the State or its custodian in the State's name.

Category 2 - Collateralized with securities held by the pledging financial institution's trust department or custodian in the State's name.

Category 3 - Uncollateralized.

#### Investments

Category 1 - Insured or registered for which the securities are held by the State or its custodian in the State's name.

Category 2 - Uninsured and unregistered investments for which the securities are held by the broker's or dealer's trust department or agent in the State's name.

Category 3 - Uninsured and unregistered investments for which the securities are held by the broker's or dealer's trust department or agent but not in the State's name.

			tegory housands <u>2</u>	<u>3</u>	Market value and carrying value
Deposits - cash	\$	4,641	-40-	-	4,641
Investments:					
Repurchase agreements		20,832	_	_	20,832
United State Government		·			
securities		523,379	-	_	523,379
Corporate bonds		144,387	_	_	144,387
Common stocks		359,898	_	_	359,898
			91,246		91,246
Foreign stocks		05 507	31,240	_	
Real estate equity funds	-	85,587	<del></del>	=	<u>85,587</u>
	\$ ,	1,138,724	91,246	_	1,229,970

#### Notes to Financial Statements

Treasury investment policy requires that securities underlying the repurchase agreements must have a minimum market value of 102% of the cost of the repurchase agreement. There were no violations of this policy during the dates covered by this statement.

#### Contributions Receivable

Contributions from employees and employers for service through June 30 are accrued. These contributions are considered fully collectible and, accordingly, no allowance for uncollectible receivables is considered necessary.

#### Investment Income Receivable

Investment income receivable represents amounts earned but not yet received as of June 30. These amounts are considered fully collectible and, accordingly, no allowance for uncollectible receivables is considered necessary. Accrued interest on loans and mortgages is not recorded until received.

#### Reclassifications

Certain amounts previously reported have been reclassified to conform with the current year's presentation. The reclassifications have no effect on the previously reported net increase in net assets available for benefits.

#### (3) Funding Status and Progress

The amount shown below as "pension benefit obligation" is a standardized disclosure measure of the present value of pension benefits, adjusted for the effects of projected salary increases, estimated to be payable in the future as a result of employee service to date. The measure is the actuarial present value of credited projected benefits and is intended to help users assess the Plan's funding status on a going-concern basis, assess progress made in accumulating sufficient assets to pay benefits when due, and make comparisons among Plans. The measure is independent of the actuarial funding method used to determine contributions to the Plan, discussed in note 4 below.

#### Notes to Financial Statements

The pension benefit obligation is determined by an actuary from William M.

Meroer-Meidinger Incorporated and is that amount that results from applying actuarial assumptions to adjust the accumulated benefits to reflect the time value of money (through discounts for interest) and the probability of payment (by means of decrements such as for death, disability, withdrawal, or retirement) between the valuation date and the expected date of payment. The significant actuarial assumptions used in the valuations as of June 30, 1987 are as follows:

- a. Actuarial cost method projected unit credit, unfunded accrued benefit liability amortized over twenty-five years, funding surplus amortized over five years.
- b. Mortality basis 1984 Unisex Pension Mortality Table set back one and one-half years.
- c. Retirement age retirement rates based on actual experience.
- d. Interest rate 9% per annum, compounded annually, net of investment expenses.
- e. Health cost inflation 9% per annum.
- f. Salary scale increase of 6.5% for the first five years of employment and 5.5% per year thereafter.
- g. Cost of living allowance (domicile in Alaska) 54% of those receiving benefits will be eligible to receive the cost of living allowance.
- h. Contribution refunds 100% of those terminating after age thirty-five with eight or more years of service will leave their contributions and thereby retain their deferred vested benefit. All others who terminate are assumed to have their contributions refunded.
- i. Asset valuation three-year average ratio between market and book values of the Plan's assets except that fixed income investments are carried at book value.

Turnover and disability assumptions are based upon actual historical occurrence rates of the Plan. The foregoing actuarial assumptions are based on the presumption that the Plan will continue. Were the Plan to terminate, different actuarial assumptions and other factors might be applicable in determining the actuarial present value of accumulated benefits.

#### Notes to Financial Statements

At June 30, 1987, the assets in excess of pension benefit obligation were \$92 million, as follows (in millions):

Net assets available for benefits, at market, as more fully described in note 2	\$ <u>1,3</u>	<u>303</u>
Pension benefit obligation:		
Retirees and beneficiaries currently receiving benefits and terminated employees not yet receiving benefits		578
Current employees:		
Accumulated employee contributions including allocated		
investment income	7	211
Employer-financed vested	3	353
Employer-financed nonvested		69
Total pension benefit obligation	1,	211
Assets in excess of pension benefit obligation	\$	92

#### (4) Contributions Required and Contributions Made

Employees' Contributions

Employees contribute 7% of their base salary as required by statute. Qualified members may make an additional contribution of 1% of their salary. Contributions are collected by employers and remitted to the Plan. Present employees' accumulated contributions at June 30, 1988 were \$300,776,000. Employees' contributions earn interest at the rate of 4-1/2% per annum, compounded annually.

#### State Contribution

Prior to July 1, 1987, the State contributed one half of the employer actuarially determined contribution requirements. Effective July 1, 1987, the State discontinued its matching requirement and the full actuarially determined contribution requirements are borne by the employers.

(Continued)

#### Notes to Financial Statements

Employer Contribution

The Plan's funding policy provides for periodic employer contributions at actuarially determined rates that, expressed as percentages of annual covered payroll, are sufficient to accumulate sufficient assets to pay benefits when due. Employer contribution rates are level percentages of payroll and are determined using the projected unit credit actuarial funding method. The Plan also uses the level percentage of payroll method to amortize the unfunded liability over a twenty-five year period. Funding surpluses are amortized over five years.

	198	1988		7
	Contributions (in thousands)	Percentage of covered payroll	Contributions (in thousands)	Percentage of covered payroll
State Employers Employees	\$ - 51,284 <u>31,384</u>	-# 13# <u>8</u>	\$ 26,856 28,959 32,058	7.7% 8.3% 9.2
	\$ <u>82,668</u>	21%	\$ <u>87,873</u>	25.2%

Contributions made in accordance with actuarially determined contribution requirements determined through actuarial valuations consist of the following (in thousands):

	<u> 1988</u>	<u> 1987</u>
Normal cost	\$ 66,206	69,956
Amortization of unfunded actuarial accrued liability	16,462	17,917
	\$ 82,668	87,873

The actuarial valuation was performed June 30, 1986 for 1988 and 1987.

Significant actuarial assumptions used to compute contribution requirements are the same as those used to compute the standardized measure of the pension obligation discussed in note 3 above.

(Continued)

#### Notes to Financial Statements

#### (5) Retirement Incentive Program

Legislation passed in May 1986 established a retirement incentive program designed to encourage eligible employees to voluntarily retire in order to reduce personnel service costs. The program was available to eligible State employees until June 30, 1987, eligible University of Alaska employees from October 1, 1986 to September 30, 1987, and all other members from January 1, 1987 to December 31, 1987.

The retirement incentive program receivable represents the reimbursement due from agencies and employers participating in the program and is due in minimum equal annual installments so that the entire balance is paid within three years after the end of the fiscal year in which members retired. Interest on unpaid balances began accruing on March 1, 1988 at 7% per annum. The amount of reimbursement is the actuarial equivalent of the difference between the benefits the member receives after the addition of the retirement incentive under the program and the amount the member would have received without the incentive, less any amount the participant was indebted as part of retiring under the program. Participating members were indebted 21% of their annual compensation for the school year in which the member terminated employment to participate in the program. An outstanding indebtedness at the time a participant was appointed to retirement resulted in an actuarial adjustment to his/her benefit.

The effect of the retirement incentive program on the pension benefit obligation will be fully accounted for in the June 30, 1988 actuarial valuation. Only the effect of program participants retiring on or before June 30, 1987 is included in the June 30, 1987 actuarial valuation.

#### (6) Ten-year Historical Trend Information

Ten-year historical trend information designed to provide information about the Plan's progress made in accumulating sufficient assets to pay benefits when due is presented on Schedules 2 and 3.

(Continued)

#### Notes to Financial Statements

#### (7) Investments

During 1988 and 1987, the Plan's investments (including investments bought, sold, as well as held during the year) appreciated (depreciated) in value as follows (in thousands):

	<u> 1988</u>	<u> 1987</u>
United States Government securities Corporate bonds, notes and debentures Common stock Foreign stock Real estate equity funds	\$ (7,881) (3,751) (41,372) (23,030) 468	(21,893) (5,576) 3,984 7,211 597
	\$ ( <u>75,566</u> )	( <u>15,677</u> )

#### (8) Contingent Liabilities

The State of Alaska Public Employees' Retirement System (PERS) was a party to an action contesting application of the early retirement factors adopted by PERS in the calculation of the pension benefit obligation. The Alaska Supreme Court ruled in 1987 that the PERS application of the early retirement factors was incorrect. While the suit was not directed at the State of Alaska Teachers' Retirement System (TRS), its outcome indirectly affected the TRS application of actuarial retirement factors. The effect of the suit on the pension benefit obligation or the amount payable to retirees as a result of not using more favorable actuarial retirement factors has not been determined and, in the opinion of the TRS actuary and officials of the Division of Retirement and Benefits, will not significantly affect the Plan's financial status.

#### Summary Schedule of Investments

June 30, 1988

(In thousands)

	Cost	Market
Short-term investments	\$ 20,832	20,832
United States Government securities	496,188	523,379
Corporate bonds, notes and debentures	146,907	144,387
Common stocks	347,780	359,898
Foreign stocks	51,756	91,246
Real estate equity funds	79,261	85,587
Loans and mortgages, at cost, net of allowance for loan		
losses of \$4,876	98,140	98,140
	\$ 1,240,864	1,323,469

#### Required Supplementary Information Analysis of Funding Progress

(Unaudited)

(In thousands)

						Unfunded pension benefit obligation
Year ended June 30	Net assets available	Pension benefit obligation	Percentage <u>funded</u>	Unfunded pension benefits obligation	Annual covered payroll	as a percentage of covered payroll
1985 1986 198 <b>7</b>	\$ 866,333 1,141,650 1,303,464	\$ 1,042,551 1,115,773 1,210,909	83.1 <b>%</b> 102.3 <u>107.6</u>	\$ 176,218 (25,877) (92,555)	\$ 358,110 392,136 348,606	49.2 <b>%</b> (6.6) ( <u>26.6</u> )

Analysis of the dollar amounts of net assets available for benefits, pension benefit obligation, and unfunded pension benefit obligation in isolation can be misleading. Expressing the net assets available for benefits as a percentage of the pension benefit obligation provides one indication of the plan's funding status on a going-concern basis. Analysis of this percentage over time indicates whether the plan is becoming financially stronger or weaker. Generally, the greater this percentage, the stronger the plan. Trends in unfunded pension benefit obligation and annual covered payroll are both affected by inflation. Expressing the unfunded pension benefit obligation as a percentage of annual covered payroll approximately adjusts for the effects of inflation and aids analysis of the plan's progress made in accumulating sufficient assets to pay benefits when due. Generally, the smaller this percentage, the stronger the plan.

See accompanying notes to required supplementary information.

#### Required Supplementary Information Revenues by Source and Expenses by Type

(Unaudited)

(In thousands)

		Re	venues by	source		Employer contributions as a
Year ended June 30	Employee contri- butions	Employer contri- butions	Invest- ment income	Unrealized appreciation (depreciation) in market value	Total	percentage of annual covered payroll
1978	\$ 15,510	19,793	16,685	_	51,988	10.8%
1979	15,142	26,559	22,832	518	65,051	13.8
1980	16,651	31,243	32,274	(6,494)	73,674	14.4
1981	18,853	37.654	39,804	(19,017)	77,294	16.2
1982	21,735	50,857	31,574	(6,701)	97,465	18.7
1983	24,546	54,718	62,846	36,218	178,328	18.6
1984	27,257	63,316	61,559	(48, 194)	103,938	19.4
1985	29,176	68,826	74,171	78,418	250,591	19.2
1986	32,039	69,276	119,173	103,643	324,131	17.7
1987	34,159	58,177	143,692	( <u>15,677</u> )	220,351	<u>16.7</u>

		Expenses by type					
	Retirement benefits	Medical benefits	Refunds to terminated employees	Administrative expenses	<u>Total</u>		
1978	\$ 11,026	_	2,319	618	13,963		
1979	12,933	905	2,420	699	16,957		
1980	15,548	914	3,088	853	20,403		
1981	18,414	1,590	3,172	1 <b>,1</b> 78	24,354		
1982	21,198	1,683	2,974	1,333	27,188		
1983	24,053	2,307	2,509	1,606	30,475		
1984	27,792	3,257	3,094	1,605	35,748		
1985	33,360	4,393	3,126	2,951	43,830		
1986	38,476	4,424	3,311	2,603	48,814		
1987	46,183	<u>4,613</u>	4,239	3,502	58,537		

Contributions were made in accordance with actuarially determined contribution requirements.

See accompanying notes to required supplementary information

Notes to Required Supplementary Information

Years ended June 30, 1987, 1986, 1985, 1984, 1983, 1982, 1981, 1980, 1979 and 1978

(Unaudited)

All significant accounting policies, benefit provisions and actuarial assumptions are the same for the required supplementary information and the financial statements except as follows:

The Plan was on the cash basis of accounting for the year ended June 30, 1978. Effective July 1, 1978, the Plan adopted the accrual basis of accounting.

The Plan's actuarial funding method for the years ended June 30, 1978 through June 30, 1984 was attained age normal. Effective July 1, 1984, the Plan adopted the projected unit credit actuarial funding method.

Effective July 1, 1980, the Plan adopted new actuarial assumptions. The assumed rate of interest was increased from 6% to 8% per year. The salary scale assumption was changed from 6% per year until age thirty-nine and 5% per year thereafter to 8% for the first five years of employment and 7% thereafter. Health care cost inflation was set at 8%. Health care cost inflation was set at 8%. Turnover and disability assumptions were revised based upon actual experience in 1980 through 1981.

Effective July 1, 1986, the Plan adopted new actuarial assumptions. Actuarial funding surpluses are amortized over five years rather than twenty-five years. The assumed rate of interest was increased from 8% to 9% per year. The salary scale assumption was lowered to 6.5% per year for the first five years of employment and 5.5% per year thereafter, down from 8% and 7%, respectively. Health care cost inflation was increased to 9% rather than 8%. Turnover and disability assumptions were revised based on actual experience in 1981 through 1985.

The amortization period for the unfunded accrued benefit liability was changed from forty years to thirty years effective July 1, 1978 and from thirty years to twenty-five years effective July 1, 1981.

#### **HIGHLIGHTS**

This report has been prepared by William M. Mercer-Meidinger-Hansen, Incorporated to:

- present the results of a valuation of the Alaska Teachers' Retirement System as of June 30, 1987;
- (2) review experience under the plan for the year ended June 30, 1987;
- (3) determine the contribution rates for the State and for each school district in the system;
- (4) provide reporting and disclosure information for financial statements, governmental agencies, and other interested parties.

The report is divided into two sections. Section 1 describes the basis of the valuation. It summarizes the plan provisions, provides information relating to the plan participants, and describes the funding methods and actuarial assumptions used in determining liabilities and costs.

Section 2 contains the results of the valuation. It includes the experience of the plan during the 1986-87 plan year, the current annual costs, and reporting and disclosure information.

The principle results are as follows:

Funding Status as of June 30:	<u>1986</u>	<u> 1987</u>
(a) Valuation Assets*	\$1,040,173	\$1,225,009
(b) Present Value of Accrued Benefits*	1,115,773	1,210,909
<pre>(c) Accrued Benefit Funding Ratio, (a)/(b)</pre>	93.2%	101.2%
Contributions for Fiscal Year	1989	<u>1990</u>
(a) Normal Cost	9.36%	9.14%
(b) Past Service Rate	1.80%	(0.95)%
(c) Total Contribution Rate	11.16%	8.19%

<sup>\*</sup> In thousands.

In preparing this valuation, we have employed generally accepted actuarial methods and assumptions, in conjunction with employee data provided to us by the plan sponsor and financial information provided by the audited report from Peat, Marwick, Main and Company, to determine a sound value for the plan liabilities. We believe that this value, and the method suggested for funding it, are in full compliance with the Governmental Accounting Standards Board, the Internal Revenue Code, and all applicable regulations.

Respectfully submitted,

Robert F. Richardson, ASA

Principal

RFR/GTS/NLP/caj

Gregory T. Smith, ASA, EA Consultant

Gregory T. Smith

March 29, 1988

#### ANALYSIS OF THE VALUATION

The Highlights Section shows an improvement in the accrued benefit funding ratio and a substantial reduction in the total contribution rate from the 1986 valuation. The reasons for the improvements, the Retirement Incentive Program (RIP), and the estimated effect of the stock market crash on October 19, 1987 are discussed below.

#### Funding Status

The valuation assets have increased by 17.8% since the 1986 valuation while the present value of accrued benefits has increased by only 8.5%. This produced an increase in the accrued benefit funding ratio, from 93.2% to 101.2%, and a decrease in the past service contribution rate, from 1.80% of salary to (.95%). The improvement in funding status is attributable to favorable plan experience since the last valuation which resulted in an actuarial gain to the plan. The sources of this gain are described later in this analysis.

#### Contribution Rate

The total contribution rate has declined from 11.16% of salary to 8.19%. The normal cost rate has decreased from 9.36% to 9.14% while the past service rate has dropped from 1.80% to (0.95%). The reduction in normal cost rate is due to changes in the active employee group while the decrease in the past service rate is due to the improvement in the funding status.

The assets now exceed the present value of accrued benefits by \$14.1 million. This means that accrued benefits are fully funded and the excess assets represent advanced funding of future benefit accruals. The excess assets are amortized over 5 years resulting in a past service rate credit of (0.95%), which is applied to reduce the normal cost rate.

#### Employee Data

Section 1.2 shows the statistical data for active, retired and other terminated employees. The number of active employees decreased from 8,824 at June 30, 1986 to 7,797 this year. Their average age and average service have each increased by more than half a year, while their average salary has remained virtually unchanged.

The number of retirees and beneficiaries has increased from 2,098 to 2,376. Their average age has decreased from 63.18 to 62.83 while their average monthly benefit has increased from \$1,542 to \$1,659. Of note is the decrease in the average age at retirement of new service retirees from 56.06 to 53.83 as shown in Section 1.2(c). This is a result of the RIP.

There has also been a large increase in the number of terminated vested employees from, 481 to 777, as well as an increase in the number of non-vested terminations with account balances from 869 to 1,529.

#### Retirement Incentive Program

The Retirement Incentive Program (RIP) was established on May 15, 1986 under a House Bill 382. The program was designed to encourage employees who were eligible for the program to retire voluntarily with earlier retirement eligibility or increased benefits. The cost of the program is more than offset by the savings of salary and other benefits provided to an active employee.

To be eligible for the program, an employee must be vested, included in an organizational unit approved for participation, and meet the minimum age and service requirements. Eligible employees must have applied to participate in the program by June 30, 1987 except for University of Alaska TRS employees who had until September 30, 1987. Participating employees have until October 1, 1987 to retire except for University of Alaska employees who have until January 1, 1988.

The RIP gives each eligible employee participating in the program three years of incentive credit. The incentive credit is applied in the following order:

- (1) to reduce the age or service requirement for normal or early retirement
- (2) to reduce the actuarial adjustment for early retirement
- (3) to increase the amount of TRS service used to determine the employee's benefit amount.

The cost of the program is shared between TRS and the employee. The cost to the employee is 21% of the employee's annual salary in the year of termination. This may be paid in a lump sum or as indebtedness which will result in an actuarial reduction in the benefit.

The full impact of the RIP will not be reflected in the actuarial valuation until June 30, 1988 when all those employees participating in the program have retired. However, the effect of the program can already be seen by the reduction in the number of active employees and the increase in the number of retired employees shown in Section 1.2(a).

#### Actuarial Experience for the Plan Year Ending June 30, 1987

The plan experienced significant actuarial gains from investment performance, employee turnover, and the small increase in average salary.

For the third straight year, the investment return on plan assets has been greater than the long term rate assumed for the valuation. The rate of return was 14.20% based on valuation assets. This produced a large actuarial gain from investments which caused the contribution rate to drop slightly more than 2%. Net actuarial gains from other sources resulted in the improved funding status of the plan and the overall drop in contribution rate of 2.97%.

The bull market of the 1980's has played an important role in reaching full funding. On October 19, 1987, the market experienced an unprecedented drop. The full funding status of the plan presented in this valuation does not reflect that drop. Generally speaking, the stock market lost the gains it had made since the beginning of 1987. Not all of the plans assets were subject to this drop. On June 30, 1987, about 42% of the plan assets were in U.S. and foreign equities and 58% of the assets were composed of the book value of government and corporate bonds, cash and receivables, or other investments.

If the impact of the crash were fully reflected in the valuation assets (without the 3 year smoothing technique), the funding status would have declined from 101.2% to about 91% and the contribution rate would have increased from 8.19% to about 11.18%. The three year average smoothes losses and helps stabilize the contribution rate which otherwise would tend to fluctuate excessively. Of course, fluctuation between valuation dates does not effect contribution rates in any manner.

In addition to asset gains, there were gains from retirement and turnover. When an employee retires early, the plan will experience some gains as benefits due to expected future salary increases will not be paid.

Section 1.2(a) shows a large increase in both the number of vested terminations and the non-vested terminations with account balances. Turnover for the plan year ending June 30, 1987 also contributed to the net actuarial gain for the year. Partially offsetting these gains was the upward pressure on cost due to the increase in average age.

#### Summary

The plan year ending June 30, 1987 was a good year financially for the TRS. The plan became fully funded for accrued benefits and experienced a substantial drop in the total contribution rate. This was due to actuarial gains for the year, primarily in the area of investment return.

The RIP was a significant event during the plan year. Based on the decrease in active participants and the increase in retired participants, the program appears to be accomplishing its goal.

The effect of the stock market crash on October 19, 1987 is not reflected in this actuarial valuation at all, but will first be recognized in the June 30, 1988 valuation. Since equity appreciation or depreciation is averaged over a three year period for determining valuation assets, the impact of the crash on the plan will be recognized over the next 3 years. This will help smooth the contribution rate and give the market a chance to recover.

#### Section 1.3 ACTUARIAL BASIS

#### Valuation of Liabilities

A. Actuarial Method - Projected Unit Credit. Liabilities and contributions shown in the report are computed using the Projected Unit Credit method of funding. The unfunded accrued benefit liability is amortized over 25 years. Actuarial funding surpluses are amortized over five years.

The objective under this method is to fund each participant's benefits under the plan as they accrue. Thus, each participant's total pension projected to retirement with salary scale is broken down into units, each associated with a year of past or future service. The principle underlying the method is that each unit is funded in the year for which it is credited. Typically, when the method is introduced there will be an initial liability for benefits credited for service prior to that date, and to the extent that this liability is not covered by Assets of the Plan there is an Unfunded Liability to be funded over a chosen period in accordance with an amortization schedule.

An <u>Accrued Liability</u> is calculated at the valuation date as the present value of benefits credited with respect to service to that date.

The <u>Unfunded Liability</u> at the valuation date is the excess of the Accrued Liability over the Assets of the Plan. The level annual payment to be made over a stipulated number of years to amortize the Unfunded Liability is the Past Service Cost.

The  $\underline{\text{Normal Cost}}$  is the present value of those benefits which are expected to be credited with respect to service during the year beginning on the valuation date.

Under this method, differences between the actual experience and that assumed in the determination of costs and liabilities will emerge as adjustments in the Unfunded Liability, subject to amortization.

B. Method for Accumulated Plan Benefit Values - The actuarial present value of accumulated plan benefits (the term used for Financial Accounting Standards Board purposes) and present value of vested accumulated benefits are a measure of plan benefits which have been earned to date. These are not only a valuation of retirement benefits, but also of deferred vested, death benefits, and other ancillary benefits. Earnings and service for benefit purposes which are expected to be earned after the valuation date are excluded from these values.

The actuarial assumptions used to determine these values are identical to those used for the funding purposes.

In estimating accumulated benefits, final average compensation is based on compensation data in the possession of the actuary.

#### C. Actuarial Assumptions -

Interest 9% per year, compounded annually, net of expenses.

2. Salary Scale 6.5% per year for the first five years of employment and 5.5% per year thereafter.

Health Inflation 9% per year.

4. Mortality 1984 Unisex Pension Mortality Table set back 1-1/2 years.

5. Turnover

Based upon the 1981-85 actual total turnover experience. (See Table 1).

Incidence rates in accordance with Table 2. Post-disability mortality in accordance with rates published by the Pension Benefit Guaranty Corporation to reflect mortality of those receiving disability benefits under Social Security.

7. Retirement Age Retirement rates based on actual experience in accordance with Table 3.

Spouse's Age Wives are assumed to be four years younger than husbands.

9. Contribution Refunds

100% of those terminating after age 35 with eight or more years of service will leave their contributions in the fund and thereby retain their deferred vested benefit. All others who terminate are assumed to have their contributions refunded.

10. C.O.L.A. 54% of those receiving retirement benefits will be eligible for C.O.L.A.

11. Sick Leave

4.7 days of unused sick leave for each year of service will be available to be credited once the member is retired.

12. Expenses

Expenses are covered in the interest assumption.

#### Valuation of Assets

Based upon the three-year average ratio between market and book values of the System's assets, except that fixed income investments are carried at book value. Assets are accounted for on an accrued basis.

#### Valuation of Medical Benefits

Medical benefits for retirees are provided by the payment of premiums from the fund. A pre-65 cost and lower post-65 cost (due to Medicare) were assumed such that the total rate for all retirees equals the present premium rate. These medical premiums are then increased with the health inflation assumption. The actuarial cost method used for funding retirement benefits is also used to fund health benefits.

#### TABLE 1

#### ALASKA TRS

#### TOTAL TURNOVER ASSUMPTIONS

Select	Rat	tes of	Tur	rnover
During	the	First	10	Years
	f Er	nploym	<u>ent</u>	

Ultimate Rates of Turnover After the First 10 Years of Employment

OI LIIDIO	ymene	<u> </u>	roginorie	-
Year of Employment	Rate	<u>Ages</u>	<u>Rate</u>	
1	.17	20-39	.03	
2	.15	40+	.02	
3	.12			
4	.12			
5	.11			
6	.09			
7	.07			
8	.07			
9	.07			
10	.06			

TABLE 2
ALASKA TRS - DISABILITY RATES
ANNUAL RATES PER 1,000 EMPLOYEES

	•
<u>Age</u>	<u>Rate</u>
20 21 22 23 24 25	.42 .43 .43 .44 .44
26 27 28 29 30	.46 .47 .48 .49
31 32 33 34 35	.52 .53 .54 .56 .58
36 37 38 39 40	.59 .62 .64 .67
41 42 43 44 45	.72 .76 .82 .89
46 47 48 49 50	1.06 1.15 1.24 1.34 1.44
51 52 53 54 55	1.56 1.72 1.91 2.13 2.40
56 57 58 59 60	2.75 3.20 3.66 4.32 5.06
61 62 63 64	5.85 6.78 7.83 8.94

TABLE 3

ALASKA TRS - RETIREMENT ASSUMPTION

Age at <u>Retirement</u>	Retirement Assumption
50	.063
51	.063
52	.063
53	.063
54	.063
55	.117
56	.117
57	.117
58	.117
59	-117
60	.260
61	.180
62	.210
63	.240
64	.270
65	.540
66	.820
67	1.000
Ψ,	1.000

For ages less than 50, teachers are assumed to retire two years after the earliest age they are eligible to retire.

## Section 2.3 CALCULATION OF TOTAL CONTRIBUTION RATE

Norm	nal Cost Rate	
(1)	Total Normal Cost*	\$ 58,098
(2)	Total Salaries*	348,606
(3)	Normal Cost Rate (1) / (2)	16.67%
(4)	Average Member Contribution Rate	7.53%
(5)	Consolidated Employer Normal Cost Rate, (3) - (4)	9.14%
Past	: Service Rate	
(1)	Present Value of Accrued Benefits*	\$1,210,909
(2)	Valuation Assets*	1,225,009
(3)	Total Unfunded Liability*, (1) - (2)	(14,100)
(4)	Amortization Factor (5 year)	4.239720
(5)	Past Service Payment, (3) / (4)	(3,326)
(6)	Total Salaries*	348,606
(7)	Past Service Rate, (5) / (6)	(0.95%)
<u>Tota</u>	al Employer Contribution Rate	8.19%

VAL2.6/pd/caj

<sup>\*</sup> In thousands.

## STATE OF ALASKA TEACHERS' RETIREMENT FUND Comparative Statement of Operations

	FISCAL June 30, 1988	YEAR ENDED June 30, 1987
S. J. J. S. Hills and Branch	<u></u>	
Beginning Equities and Reserves	\$1,303,464,050	\$1,141,650,155
Additions: .		
Employees' Contributions: Mandatory Supplemental Reinstatement Arrearage Retroactive Indebtedness Interest	29,346,564 802,605 824,245 1,022,931 55,670 1,052,156	29,382,660 903,652 453,773 1,361,827 51,236 2,005,636
Total Employees' Contributions	33,104,171	34,158,784
Employers' Contributions	59,562,608	31,601,073
State Contributions-Matching	-0-	26,856,301
Investment Income	101,421,363	147,105,977
Market Value Adjustment	(75,566,162)	(15,676,739)
RIP Receivable	9,799,747	-0-
Total Additions	128,321,727	224,045,396
Total Equities, Reserves and Additions	1,431,785,777	1,365,695,551
Deductions:		
Administrative Expenses Personnel Services Travel and Moving Contractual Services Supplies and Materials Machinery/Equipment Grants/Interagency	861,396 22,150 284,342 10,965 37,542 3,034,954	852,488 17,949 287,719 6,332 12,592 2,325,034
Total Administrative Expenses	4,251,349	3,502,114
Employees' Contributions and Interest Refunded	3,798,520	4,238,873
Provision for Loan Losses	1,182,019	3,694,000
Medical Benefit Expenses	5,039,800	4,613,300

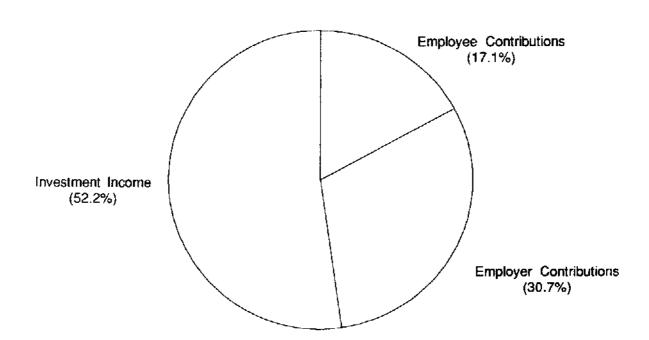
## STATE OF ALASKA TEACHERS' RETIREMENT FUND Comparative Statement of Operations

	FISCAL Y June 30, 1988	EAR ENDED June 30, 1987
Retirement Benefits Paid: Base Benefits Cost of Living Allowance Spouse's Annuity Survivor Benefits Disability Benefits Post-Retirement Pension Adjustment Lump-Sum Benefits Non-occupational Death Benefits	46,817,658 3,477,416 516,652 486,274 1,976,381 7,590,508 -0- 73,929	33,441,310 2,391,373 457,763 545,365 1,547,393 7,739,475 13,560 46,975
Total Retirement Benefits	60,938,818	46,183,214
Total Deductions	75,210,506	62,231,501
Ending Equities and Reserves-Adjusted	\$1,356,575,271	\$1,303,464,050

#### TEACHERS' RETIREMENT SYSTEM

Year Ended June 30, 1988

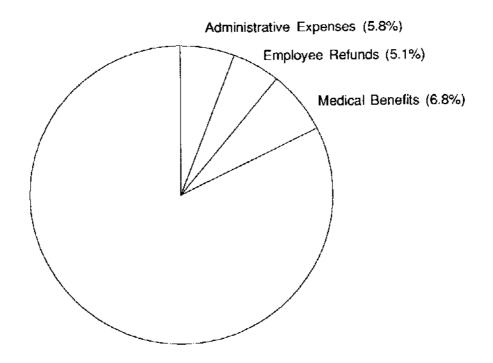
Income and Receipts \$194,088,142



### TEACHERS' RETIREMENT SYSTEM

Year Ended June 30, 1988

Disbursements \$74,028,487



Retirement Benefits (82.3%)

STATE OF ALASKA TEACHERS' RETIREMENT FUND Historical Data Fiscal Years 1977 through 1988 (cents omitted)

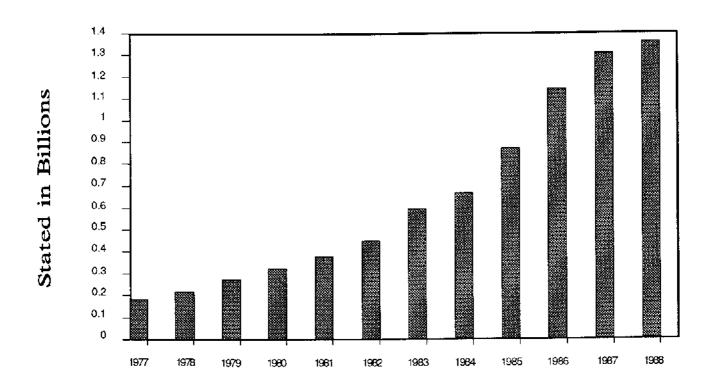
25,855,201	3,798,520	65,978,618	33,104,171	59,562,608	1,356,575,271	**1988
128,015,816	4,238,873	50,796,514	34,158,784	58,176,796	1,303,464,050	1987
119,172,931	3,311,113	42,900,488	32,039,021	69,275,717	1,141,650,155	1986
73,312,456	3,126,205	37,752,518	29,175,647	68,825,841	866,333,672	1985
60,586,110	3,094,220	31,048,570	27,256,918	63,315,499	659,572,326	1984
62,075,568	2,509,240	26,360,363	24,546,266	54,717,900	591,382,599	1983
30,900,759	2,974,426	22,881,444	21,735,042	50,856,750	443,528,571	1982
39,180,591	3,172,253	20,004,135	18,853,076	37,653,917	373,253,081	1981
31,783,301	3,087,910	16,462,399	16,650,594	31,243,171	320,314,293	1980
22,311,725	2,419,936	13,838,067	15,142,057	26,558,644	267,043,332	* 1979
16,051,252	2,319,376	11,025,589	15,510,483	19,792,849	215,370,551	1978
13,583,578	1,859,829	8,161,421	12,162,883	24,030,230	177,345,467	1977
Net Investment Income During	Employees' Contributions and Interest Refunded During Fiscal Year	Benefits Paid Including Medical Expenses & Death Benefits	Employees' Contributions During Fiscal Year	State of Alaska and Employers' Contributions During Fiscal Year	Assets Fiscal Year End	Fiscal

\* Figures presented on an accrual basis effective FY 79. \*\* Employers' contributions do not include State match effective FY 88.

### TEACHERS' RETIREMENT SYSTEM

**Total Assets** 

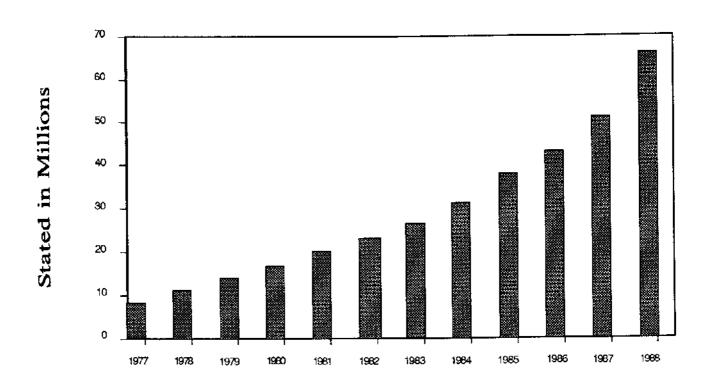
Fiscal Years 1977 through 1988



### TEACHERS' RETIREMENT SYSTEM

Benefits Paid

Fiscal Years 1977 through 1988



#### STATE OF ALASKA TEACHERS' RETIREMENT FUND Employer Contribution Rates Fiscal Year 1988

Employer	Percentage
Adak Region School District Alaska Department of Education Alaska Gateway School District Alaska, University of Alaska Geophysical Institute, University of	13.76%
	SAME FOR ALL EMPLOYERS
Matanuska-Susitna Borough School District National Education Association Nenana City Schools Nome City Schools North Slope Borough School District Northwest Arctic School District Pelican School District	

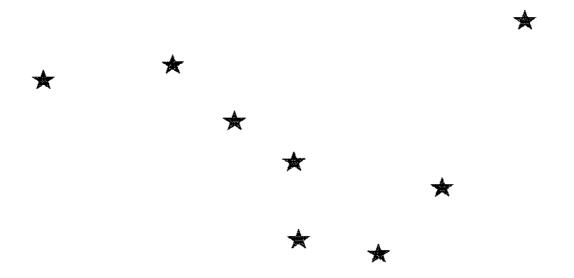
#### STATE OF ALASKA TEACHERS' RETIREMENT FUND Employer Contribution Rates Fiscal Year 1988

#### Continued

Employer	Percentage
Petersburg City Schools Pribilof Region School District Railbelt School District Saint Mary's School District	13.76%
Sand Point City School District	S
Sitka Borough School District	Α
Skagway City School District	M
Southeast Islands School District	Ε
Southeast Regional Resource Center	
Southwest Region School District	F
Special Education Service Agency State Legislature	'n
Tanana School District	0 R
Unalaska School District	
Valdez City Schools	Α
Wrangell School District	L
Yakutat School District	L
Yukon Flats School District	_
Yukon-Koyukuk School District	E
Yupiit School District	M
	P
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## INVESTMENTS



#### DEPARTMENT OF REVENUE

TREASURY DIVISION

STEVE COWPER, GOVERNOR

ELEVENTH FLOOR STATE OFFICE BUILDING P.O. BOX SB JUNEAU, ALASKA 99811-0400

December 1, 1988

To the Participating Employees and Employers of The Public Employees Retirement System

#### Dear Beneficiaries:

Under new statutes which became effective in June of 1988, the investible assets of the retirement system were officially established as a separate trust fund whose assets are required to be invested and held solely for the best financial interests of the system's beneficiaries. On behalf of the Trustee of the trust fund, Commissioner of Revenue Hugh Malone, the Treasury Division has prepared the accompanying financial statements for the Public Employees Retirement Trust Fund's fiscal year ending June 30, 1988. The financial statements have been redesigned in order to give you a better understanding of the fund's investment position and the investment returns realized during the last fiscal year.

The accompanying Statement of Assets shows the amounts that were invested in different types of investments and their respective market values and expected annual income flows. The fund's equity investments exhibit relatively low income yields because the income estimates do not include the highly variable capital gains which are usually realized annually on those investments. When capital gains are included, equity investments normally have higher total returns than fixed income investments. The fund's asset allocation of 38 percent to equities is a fairly conservative position for this type of fund. It reflects the probability that equity returns will be more modest and less certain over the immediate future than they have been in recent years. percent of the fund invested in high grade fixed income securities, which have higher and more certain income yields, acts to offset the more variable year to year returns on equities and helps to assure that the fund will be able to meet or exceed its assumed average actuarial return of 9 percent per annum. If the fund's returns exceed the assumed rate of return, as they have for most of the last 10 years, then either future contribution rates could be reduced or benefits could be increased. On June 30, 1988 the fund's market value of \$2.1 billion exceeded its book value by \$129 million and we expect its income from investments to be about \$146 million in the current fiscal year.

The second statement, Reconciliation of the Fund's Book Value for the Fiscal Year, shows the sources of the fund's growth in book value during the year. Almost 70 percent of the increase in the fund's size came from net realized investment returns. The remaining 30 percent of the fund's growth consisted of employee and employer contributions (net of benefit payments to retirees and refunds to non vested participants). Net contribution amounts have been shrinking over recent years because high levels of investment returns have

To the Participating Employees and Employers of The Public Employees Retirement System Page 2

reduced the amounts that need to be contributed in order to meet the retirement system's expected future liabilities and because the amount of benefit payments has grown as the number of retired employees has increased. Despite the decreased net contribution amounts and investment returns that were markedly lower than the previous three years, the fund's total book value increased by 11.9 percent during the fiscal year.

The third statement, Distribution of Investment Returns by Asset Categories. shows the fiscal year's realized investment returns on each of the different types of investments. Returns on the fixed income securities, which constitute 61 percent of the entire fund, are rather stable and do not vary much from year to year. Equity returns, on the other hand, are highly variable on a year-to-year basis. After three years of exceptionally high returns on domestic common stock securities, last year's lower returns were a somewhat overdue expectation. But international common stocks continued for the fourth straight year to realize very high returns, 34.6 percent for the fiscal year. The lower returns on domestic common stocks, which constitute 27 percent of the fund's assets, reduced the fund's overall net realized investment return for the fiscal year to 7.8 percent. That reduced return may not signify a necessary increase in the amounts which employers will have to contribute in future years, because actuarial valuations rely on three year averages of market to book values of investments to determine the asset base available for pension benefits.

During the last fiscal year the fund reduced its total equity investments by shifting 7 percent of the assets out of common stocks and into U.S. Treasury and corporate bonds. The shift was made in order to take advantage of the relatively high interest yields available on bonds and in order to reduce the fund's exposure to the poorer near term outlook at that time for common stock returns. We are five months into the new fiscal year and, based on the results so far achieved, it is reasonable to expect that the fund's realized return on its book value in the current year will be substantially higher than it was last year.

Respectfully,

James R. Wilson Chief Investment Manager

Melson

Treasury Division

Department of Revenue

JRW/gb

Enclosure

# STATE OF ALASKA DEPARTMENT OF REVENUE DIVISION OF TREASURY PUBLIC EMPLOYEES RETIREMENT TRUST FUND INVESTMENT SUMMARY

JUNE 30, 1988

## PUBLIC EMPLOYEES RETIREMENT TRUST FUND SUMMARY OF ASSETS JUNE 30, 1988 (\$,000)

					Income 1	rields
	% of					
	Total	Book	Ml4	Annual	at Deele	
				Income		Market
ASSETS		Value	Value	Estimate		
EQUITIES (External Managers)						
REAL ESTATE EQUITIES	7%	\$131,681	\$140,802	\$7,071	5.37%	5.02%
DOMESTIC COMMONS	27%	537,368		18,969		
INTERNATIONAL COMMONS	4%	77,847	138,421	1,541	1.98%	1.11%
		• • • • • • • • • • • • • • • • • • • •	*******			
TOTAL EQUITIES	38%	746,896	836,103	<sup>*</sup> 27,582	3.69%	3.30%
FIXED INCOME (Treasury Managed)						
MORTGAGES	6%	114,934	119,091	12,286	10,69%	10.32%
CORPORATE ISSUES	12%	228,916	225,931	23,876	10.43%	10.57%
U.S. TREASURY ISSUES	36%	703,067	741,826	70,518	10.03%	9.51%
MONEY MARKET ISSUES	8%	157,010	156,502	11,556	7.36%	7.38%
TOTAL FIXED INCOME	61%	1,203,926	1,243,351	118,236	9.82%	9.51%
		•••••				
TOTAL INVESTMENTS	99%	1,950,822	2,079,453	145,818	7.47%	7.01%
CASH (INTEREST EARNING)	0%	91	91	6	6.55%	6.55%
				******		
TOTAL INVESTIBLE ASSETS	99%	1,950,914	2,079,544	145,824	7.47%	7,01%
NET ACCRUALS RECEIVABLE	1%	26,402	26,402			
CONTRIBUTIONS RECEIVABLE	0%	1,175				
TOTAL FUND ASSETS	100%	\$1,978,491	\$2,107,122			

# PUBLIC EMPLOYEES RETIREMENT TRUST FUND RECONCILIATION OF THE FUND'S BOOK VALUE FOR THE FISCAL YEAR ENDING JUNE 30, 1988 (\$,000)

		% of Book
INVESTMENT RETURNS:		Value Change
INCOME EARNED AND RECEIVED	\$109,324	52.1%
CAPITAL GAINS REALIZED	17,446	8.3%
TOTAL RETURNS RECEIVED	\$126,770	60.4%
ACCRUED INCOME RECEIVABLE	\$26,402	12.6%
TOTAL RETURNS RECEIVABLE	26,402	
TOTAL INVESTMENT RETURNS	153,172	73.0%
LESS ADMINISTRATIVE EXPENSES	(6,964)	-3.3%
NET INVESTMENT RETURNS	146,208	69.7%
NET CONTRIBUTIONS RECEIVED	62,496	29.8%
NET CONTRIBUTIONS RECEIVABLE	1,175	0.6%
NET CHANGE IN BOOK VALUE	209,880	100.0%
FUND'S BOOK VALUE 6-30-87	1,768,612	
FUND'S BOOK VALUE 6-30-88	\$1,978,492 =======	

# PUBLIC EMPLOYEES RETIREMENT TRUST FUND DISTRIBUTION OF INVESTMENT RETURNS BY ASSET CATEGORIES AT BOOK VALUES FOR THE FISCAL ENDING JUNE 30, 1988 (\$,000)

ASSETS	Received	Capital Gain/(Loss) Realized	Received	Accrued		Book Values
				•		
EQUITIES (Externally Managed)						
REAL ESTATE	\$7,371	\$	\$7,371	\$	\$7,371	6.50%
DOMESTIC COMMONS	19, 165	(5,273)	13,893	1,275	15,168	2.46%
INTERNATIONAL COMMONS	2,941	24,047	26,988		26,988	34.67%
TOTAL EQUITIES	29,477		48,252		49,527	6.13%
FIXED INCOME (Internally Managed	d)	*****				
MORTGAGES	11,158		11,158		11,158	
OTHER DEBT ISSUES	68,689	(1,328)	67,361		92,488	9.72%
TOTAL FIXED INCOME	79,847	(1,328)			103,646	
TOTAL RETURNS	109,324	17,446	126,770	26,402		
LESS EXPENSES PAID	(6,964)		(6,964)		(6,964)	)
NET RETURNS	\$102,360			\$26,402		

## PUBLIC EMPLOYEES RETIREMENT TRUST FUND NOTES TO INVESTMENT SUMMARY

June 30, 1988

## THE FUND

The Public Employees Retirement System is a defined benefit, joint contributory system established by the State of Alaska for the payment of retirement, disability, health and death benefits to or on behalf of qualified employees of the State or a political subdivision of the State. The Public Employees Retirement Trust Fund is a separate fiduciary trust fund established by state statutes. The Commissioner of Revenue is the Trustee of the fund and is responsible for the custody of the assets and for investing the fund for the best financial interests of the beneficiaries.

## SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

The accounting and reporting policies for the Public Employees' Retirement Trust Fund conform to generally accepted accounting principles except for the effects of Treasury's accounting principles for foreign equity funds, as discussed below. The more significant accounting policies are as follows:

- 1. Fiscal year figures are for the Fund's fiscal year ending June 30th.
- 2. Net contributions reflect the amounts the trust fund received from the Division of Retirement and Benefits, and represent the contributions by employees and employers less the amounts of benefits paid or refunded.
- 3. Dividend income on domestic stocks is accrued on their ex-dividend dates. Interest income on domestic debt securities is accrued as earned. Interest income is shown net of amortization of premiums and accretion of discounts. Accrued interest purchased is charged against income at the time of acquisition. International dividends and interest are recognized for income purposes when their U.S. dollar amount has become irrevocable at the time they are remitted to the fund.
- 4. Book value is stated at cost except that the book values of marketable domestic debt issues are adjusted for amortization of premiums and accretion of discounts. Gains or losses on the sale of marketable domestic debt issues are determined on a specific lot identification basis, and gains or losses on the sale of equities in the Consolidated Domestic Equities Fund are determined on a specific lot basis.
- 5. Investment management costs are separately charged to the Public Employees' Retirement System and are not deducted from operating income at the time income is received.

- 6. The investments of the domestic common stock managers were merged into the Consolidated Domestic Equity Fund on October 1, 1987, and that fund is operated on a unit accounting basis for participating trust funds.
- On June 30, 1987, the Treasury changed the fund's accounting for the cost basis of marketable securities in foreign equity funds. new method, investment income and gains and losses on sales of securities are not considered realized until funds are converted to U.S. Dollars and withdrawn from the foreign equity funds, at which time gain or loss is realized proportional to the amount of market value appreciation or depreciation on the total of foreign equity investments. The proportion is the ratio of funds withdrawn compared to the total market value of the fund as of the date of withdrawal. It is the opinion of Treasury's external auditors, Ernst & Whinney, that the accounting principle stated in APB 52 recommends that investment income be recognized when accrued by the foreign equity manager and that gain or loss on the sale of marketable securities be recognized as realized upon completion of sale by the foreign equity manager. The above described differences would have no effect on the accounting for foreign equity funds on a market value basis.
- 8. Investments are stated on a trade date (ownership) accounting basis, including unsettled transactions as follows: sold securities at proceeds amounts for both book and market values; purchased securities at cost in book value and at closing market prices in market value. Gains and losses on sold securities are recognized as of the trade date.

## MARKET VALUE

The market value of marketable securities is determined by the custodial agent on the last business day of each month. Real estate equities are valued by the managing firms. The market value of the mortgage investments is estimated by reference to the current secondary mortgage market conditions as reported by the MGIC Investment Corporation. Their estimate is of limited applicability because of the illiquid status of those investments.

## INVESTMENTS

The Public Employees Retirement Trust Fund's deposits and investments are categorized below pursuant to the Governmental Accounting Standards Board (GASB) Statement No. 3 and GASB Technical Bulletin No. 87-1 to give an indication of the level of safekeeping risk assumed by the fund at statement date. The Treasury Division does not concur in the interpretation which places international equity investments under category 2 rather than category 1.

## Deposits:

1. Insured or collateralized with securities held by the State or by its custodian in the State's name.

2. Collateralized with securities held by the pledging financial institution's trust department or custodian in the State's name.

### 3. Uncollateralized

## Investments:

- 1. Insured or registered for which the securities are held by the State or its custodian in the State's name.
- Uninsured and unregistered investments for which the securities are held by the broker's or dealer's trust department or agent in the State's name.
- 3. Uninsured and unregistered investments for which the securities are held by the broker's or dealer's trust department or agent not in the State's name.

CATEGORY

	@ BOOK VALUE (\$000)			
	1	2	3	
DEPOSITS: CASH				
(INTEREST EARNING)	\$91	\$	\$	
INVESTMENTS:				
U.S. TREASURY DEBT	703,067			
CORPORATE DEBT	228,916			
DOMESTIC EQUITIES	537,368			
FOREIGN EQUITIES		77,847		
MONEY MARKET ISSUES	157,010			
MORTGAGES	114,934			
REAL ESTATE EQUITIES	131,681			
FINANCIAL FUTURES				
			~~	
TOTAL	\$1,873,066	\$77,847	\$0	

### REPURCHASE AGREEMENTS

Treasury Division investment policy and executed repurchase agreements with non-bank primary dealers require that U.S. Treasury securities collateralizing a repurchase agreement must have a minimum market value of 102 percent of the moneys lent. There were no violations of this policy during the dates covered by this statement.

## EXTERNAL INVESTMENT MANAGEMENT

Domestic common stocks are assets of the fund currently under external management by contracted managers who have been directed to emphasize domestic corporate common stock investments. International common stocks are assets of the fund currently under external management by

contracted managers who have been directed to emphasize international corporate common stock investments. Real Estate Equities are assets of the fund consisting of units or shares in real estate equity funds which are under external contracted management by various companies.

## YIELDS

Yields on United States Treasury Issues, and Corporate fixed income issues reflect weighted average yields-to-maturity based on either cost values or market values. Yields on domestic commons, international commons, and money market issues reflect current yields based on either cost values or market values. The yields on mortgages reflect a weighted average yield to a ten year average maturity based on cost values and market values. Yields on real estate equities reflect the annualized realized monthly income as related to book values and market values.

## FUTURES CONTRACTS

The trust fund may use futures contracts to hedge its investment security portfolio against market value fluctuations. Gains and losses on hedging of common stock investments are realized as a separate item in the net income. Gains and losses on hedging of fixed income investments are realized as a decrease or increase in the amortized cost of the hedged security. In order to use futures contracts the Treasury Division has established margin accounts with futures dealers. Changes in the trust fund's margin account are summarized below:

	FY-88
Market Value 6-30-87 Deposits (Withdrawals) Change in Market Value	\$200.00 0.00 0.00
Market Value 6-30-88	\$200.00

## STATE OF ALASKA

## DEPARTMENT OF REVENUE

TREASURY DIVISION

STEVE COWPER, GOVERNOR

ELEVENTH FLOOR STATE OFFICE BUILDING P.O. BOX SB JUNEAU, ALASKA 99811-0400

December 1, 1988

To the Participating Employees and Employers of The Teachers Retirement System

Dear Beneficiaries:

Under new statutes which became effective in June of 1988, the investible assets of the retirement system were officially established as a separate trust fund whose assets are required to be invested and held solely for the best financial interests of the system's beneficiaries. On behalf of the Trustee of the trust fund, Commissioner of Revenue Hugh Malone, the Treasury Division has prepared the accompanying financial statements for the Teachers Retirement Trust Fund's fiscal year ending June 30, 1988. The financial statements have been redesigned in order to give you a better understanding of the fund's investment position and the investment returns realized during the last fiscal year.

The accompanying Statement of Assets shows the amounts that were invested in different types of investments and their respective market values and expected annual income flows. The fund's equity investments exhibit relatively low income yields because the income estimates do not include the highly variable capital gains which are usually realized annually on those investments. When capital gains are included, equity investments normally have higher total returns than fixed income investments. The fund's asset allocation of 38 percent to equities is a fairly conservative position for this type of fund. It reflects the probability that equity returns will be more modest and less certain over the immediate future than they have been in recent years. percent of the fund invested in high grade fixed income securities, which have higher and more certain income yields, acts to offset the more variable year to year returns on equities and helps to assure that the fund will be able to meet or exceed its assumed average actuarial return of 9 percent per annum. If the fund's returns exceed the assumed rate of return, as they have for most of the last 10 years, then either future contribution rates could be reduced or benefits could be increased. On June 30, 1988 the fund's market value of \$1.3 billion exceeded its book value by \$84 million and we expect its income from investments to be about \$93 million in the current fiscal year.

The second statement, Reconciliation of the Fund's Book Value for the Fiscal Year, shows the sources of the fund's growth in book value during the year. Almost 77 percent of the increase in the fund's size came from net realized investment returns. The remaining 23 percent of the fund's growth consisted of employee and employer contributions (net of benefit payments to retirees and refunds to non-vested participants). Net contribution amounts have been shrinking over recent years because high levels of investment returns have

To the Participating Employees and Employers of The Teachers Retirement System Page 2

reduced the amounts that need to be contributed in order to meet the retirement system's expected future liabilities and because the amount of benefit payments has grown as the number of retired employees has increased. Despite the decreased net contribution amounts and investment returns that were markedly lower than the previous three years, the fund's total book value increased by 10.9 percent during the fiscal year.

The third statement, Distribution of Investment Returns by Asset Categories. shows the fiscal year's realized investment returns on each of the different types of investments. Returns on the fixed income securities, which constitute 61 percent of the entire fund, are rather stable and do not vary much from year to year. Equity returns, on the other hand, are highly variable on a year-to-year basis. After three years of exceptionally high returns on domestic common stock securities, last year's lower returns were a somewhat overdue expectation. But international common stocks continued for the fourth straight year to realize very high returns, 34.4 percent for the fiscal year. The lower returns on domestic common stocks, which constitute 28 percent of the fund's assets, reduced the fund's overall net realized investment return for the fiscal year to 8 percent. That reduced return may not signify a necessary increase in the amounts which employers will have to contribute in future years, because actuarial valuations rely on three year averages of market to book values of investments to determine the asset base available for pension benefits.

During the last fiscal year the fund reduced its total equity investments by shifting 7 percent of the assets out of common stocks and into U.S. Treasury and corporate bonds. The shift was made in order to take advantage of the relatively high interest yields available on bonds and in order to reduce the fund's exposure to the poorer near term outlook at that time for common stock returns. We are five months into the new fiscal year and, based on the results so far achieved, it is reasonable to expect that the fund's realized return on its book value in the current year will be substantially higher than it was last year.

Respectfully,

James R. Wilson

Chief Investment Manager

James Ellehon

Treasury Division

Department of Revenue

JRW/qb

Enclosures

# STATE OF ALASKA DEPARTMENT OF REVENUE DIVISION OF TREASURY TEACHERS RETIREMENT TRUST FUND INVESTMENT SUMMARY

JUNE 30, 1988

# STATE OF ALASKA TEACHERS RETIREMENT TRUST FUND SUMMARY OF ASSETS JUNE 30, 1988 (\$,000)

					Income '	rields
	% of Total			Annual	at	at
100570	Book Value	Book		Income		Market
ASSETS	Value	Value	Value	Estimate	Value	Value
EQUITIES (External Managers)						
REAL ESTATE EQUITIES			\$85,587			
DOMESTIC COMMONS	28%	347,780	359,898	12,277	3.53%	3.41%
INTERNATIONAL COMMONS	4%	51,756	91,246	1,009	1.95%	1.11%
		•••••	********			
TOTAL EQUITIES	38%	478,797	536,731	17,804	3.72%	3.32%
FIXED INCOME (Treasury Managed)						
MORTGAGES	8%	98,140	100,344	10,275	10.47%	10.24%
CORPORATE ISSUES	12%	146,907	144,387	15,264	10.39%	10.57%
U.S. TREASURY ISSUES	33%		441,206	42,084	10.17%	9.54%
MONEY MARKET ISSUES	8%	103,216		7,793	7.55%	7.57%
		•••••	*******			
TOTAL FIXED INCOME	60%	762,067	788,941	75,416	9.90%	9.56%
TOTAL INVESTMENTS	98%	1,240,864	1,325,673	93,219	7.51%	7.03%
			• •			
CASH (INTEREST EARNING)	0%	128	128	8	6.55%	6.55%
TOTAL INVESTIBLE ASSETS	98%	1,240,992	1,325,801	93,228	7.51%	7.03%
				#=======		
NET ACCRUALS RECEIVABLE	1%	15,369	15,369			
CONTRIBUTIONS RECEIVABLE	0%	4,735	4,735			
TOTAL FUND ASSETS	100%	\$1,261,097	\$1,345,905			
			<b>E</b>			

# TEACHERS RETIREMENT TRUST FUND RECONCILIATION OF THE FUND'S BOOK VALUE FOR THE FISCAL YEAR ENDING JUNE 30, 1988 (\$,000)

		% of Book
INVESTMENT RETURNS:		Value Change
INCOME EARNED AND RECEIVED	\$70,955	57.1%
CAPITAL GAINS REALIZED	13,512	10.9%
TOTAL RETURNS RECEIVED	\$84,467	67.9%
ACCRUED INCOME RECEIVABLE	\$15,369	12.4%
TOTAL RETURNS RECEIVABLE	15,369	12.4%
TOTAL INVESTMENT RETURNS	99,836	80.3%
LESS ADMINISTRATIVE EXPENSES	(4,252)	-3.4%
NET INVESTMENT RETURNS	95,584	76.9%
NET CONTRIBUTIONS RECEIVED	24,033	19.3%
NET CONTRIBUTIONS RECEIVABLE	4,735	3.8%
NET CHANGE IN BOOK VALUE	124,352	100.0%
FUND'S BOOK VALUE 6-30-87	1,136,745	
	***********	
FUND'S BOOK VALUE 6-30-88	\$1,261,097	
	222266677	

# TEACHERS RETIREMENT TRUST FUND DISTRIBUTION OF INVESTMENT RETURNS BY ASSET CATEGORIES AT BOOK VALUES FOR THE FISCAL ENDING JUNE 30, 1988 (\$,000)

		Capital			Total	% Yield on
	Income	Gain/(Loss)	Returns	1ncome	Investment	Mid-Year
ASSETS		Realized	-			
	***************************************			•••••		•
EQUITIES (Externally Managed)						
REAL ESTATE	<b>\$</b> 4,445		\$4,445		\$4,445	6.11%
DOMESTIC COMMONS	12,365	(\$1,768)	10,597	\$824	11,421	2.86%
INTERNATIONAL COMMONS	1,967	15,856	17,823		17,823	34.44%
		•••••				
TOTAL EQUITIES	•	14,087	•		-	6.43%
FINEN THEOME ATMANDALLA MADAGE		••••••				•
FIXED INCOME (Internally Manag	-					
MORTGAGES	•		-		-	8.63%
OTHER DEBT ISSUES	_	(576)	_	_	_	
	***	******		******		•
TOTAL FIXED INCOME	52,178	(576)	51,602	-	-	9.88%
	•••••	*******	*******			•
TOTAL RETURNS	70,955	13,512	84,467	15,369	99,836	8.37%
LESS EXPENSES PAID	(4,252	)	(4,252)		(4,252)	•
NET RETURNS	\$66,703	\$13,512				8.01%
	*========	EC=====	=======	=======	=======	======

## TEACHERS RETIREMENT TRUST FUND NOTES TO INVESTMENT SUMMARY

June 30, 1988

## THE FUND

The Teachers Retirement System is a defined benefit, joint contributory system established by the State of Alaska for the payment of retirement, disability, health and death benefits to or on behalf of qualified employees of the State or a political subdivision of the State. The Teachers Retirement Trust Fund is a separate fiduciary trust fund established by state statutes. The Commissioner of Revenue is the Trustee of the fund and is responsible for the custody of the assets and for investing the fund for the best financial interests of the beneficiaries.

## SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

The accounting and reporting policies for the Teachers' Retirement Trust Fund conform to generally accepted accounting principles except for the effects of Treasury's accounting principles for foreign equity funds, as discussed below. The more significant accounting policies are as follows:

- 1. Fiscal year figures are for the Fund's fiscal year ending June 30th.
- 2. Net contributions reflect the amounts the trust fund received from the Division of Retirement and Benefits, and represent the contributions by employees and employers less the amounts of benefits paid or refunded.
- 3. Dividend income on domestic stocks is accrued on their ex-dividend dates. Interest income on domestic debt securities is accrued as earned. Interest income is shown net of amortization of premiums and accretion of discounts. Accrued interest purchased is charged against income at the time of acquisition. International dividends and interest are recognized for income purposes when their U.S. dollar amount has become irrevocable at the time they are remitted to the fund.
- 4. Book value is stated at cost except that the book values of marketable domestic debt issues are adjusted for amortization of premiums and accretion of discounts. Gains or losses on the sale of marketable domestic debt issues are determined on a specific lot identification basis, and gains or losses on the sale of equities in the Consolidated Domestic Equities Fund are determined on a specific lot basis.
- 5. Investment management costs are separately charged to the Teachers' Retirement System and are not deducted from operating income at the time income is received.

- 6. The investments of the domestic common stock managers were merged into the Consolidated Domestic Equity Fund on October 1, 1987, and that fund is operated on a unit accounting basis for participating trust funds.
- 7. On June 30, 1987, the Treasury changed the fund's accounting for the cost basis of marketable securities in foreign equity funds. Under the new method, investment income and gains and losses on sales of securities are not considered realized until funds are converted to U.S. Dollars and withdrawn from the foreign equity funds, at which time gain or loss is realized proportional to the amount of market value appreciation or depreciation on the total of foreign equity investments. The proportion is the ratio of funds withdrawn compared to the total market value of the fund as of the date of withdrawal. It is the opinion of Treasury's external auditors, Ernst & Whinney, that the accounting principle stated in APB 52 recommends that investment income be recognized when accrued by the foreign equity manager and that gain or loss on the sale of marketable securities be recognized as realized upon completion of sale by the foreign equity manager. The above described differences would have no effect on the accounting for foreign equity funds on a market value basis.
- 8. Investments are stated on a trade date (ownership) accounting basis, including unsettled transactions as follows: sold securities at proceeds amounts for both book and market values; purchased securities at cost in book value and at closing market prices in market value. Gains and losses on sold securities are recognized as of the trade date.

## MARKET VALUE

The market value of marketable securities is determined by the custodial agent on the last business day of each month. Real estate equities are valued by the managing firms. The market value of the mortgage investments is estimated by reference to the current secondary mortgage market conditions as reported by the MGIC Investment Corporation. Their estimate is of limited applicability because of the illiquid status of those investments.

## INVESTMENTS

The Teachers Retirement Trust Fund's deposits and investments are categorized below pursuant to the Governmental Accounting Standards Board (GASB) Statement No. 3 and GASB Technical Bulletin No. 87-1 to give an indication of the level of safekeeping risk assumed by the fund at statement date. The Treasury Division does not concur in the interpretation which places international equity investments under category 2 rather than category 1.

## Deposits:

1. Insured or collateralized with securities held by the State or by its custodian in the State's name.

2. Collateralized with securities held by the pledging financial institution's trust department or custodian in the State's name.

## Uncollateralized

## Investments:

- 1. Insured or registered for which the securities are held by the State or its custodian in the State's name.
- 2. Uninsured and unregistered investments for which the securities are held by the broker's or dealer's trust department or agent in the State's name.
- 3. Uninsured and unregistered investments for which the securities are held by the broker's or dealer's trust department or agent not in the State's name.

	CATEGORY @ BOOK VALUE (\$000)			
	1	2	3	
DEPOSITS:				
CASH			_	
(INTEREST EARNING)	\$128	\$	\$	
INVESTMENTS:				
	430 004			
U.S. TREASURY DEBT	413,804			
CORPORATE DEBT	146,907			
DOMESTIC EQUITIES	347,780			
FOREIGN EQUITIES		51,756		
MONEY MARKET ISSUES	103,216	•		
MORTGAGES	98,140			
REAL ESTATE EQUITIES	79,261			
FINANCIAL FUTURES	·			
•				
TOTAL	\$1,189,236	\$51,756	\$0	

## REPURCHASE AGREEMENTS

Treasury Division investment policy and executed repurchase agreements with non-bank primary dealers require that U.S. Treasury securities collateralizing a repurchase agreement must have a minimum market value of 102 percent of the moneys lent. There were no violations of this policy during the dates covered by this statement.

## EXTERNAL INVESTMENT MANAGEMENT

Domestic common stocks are assets of the fund currently under external management by contracted managers who have been directed to emphasize domestic corporate common stock investments. International common

stocks are assets of the fund currently under external management by contracted managers who have been directed to emphasize international corporate common stock investments. Real Estate Equities are assets of the fund consisting of units or shares in real estate equity funds which are under external contracted management by various companies.

## YIELDS

Yields on United States Treasury Issues, and Corporate fixed income issues reflect weighted average yields-to-maturity based on either cost values or market values. Yields on domestic commons, international commons, and money market issues reflect current yields based on either cost values or market values. The yields on mortgages reflect a weighted average yield to a ten year average maturity based on cost values and market values. Yields on real estate equities reflect the annualized realized monthly income as related to book values and market values.

## **FUTURES CONTRACTS**

The trust fund may use futures contracts to hedge its investment security portfolio against market value fluctuations. Gains and losses on hedging of common stock investments are realized as a separate item in the net income. Gains and losses on hedging of fixed income investments are realized as a decrease or increase in the amortized cost of the hedged security. In order to use futures contracts the Treasury Division has established margin accounts with futures dealers. Changes in the trust fund's margin account are summarized below:

	FY-88
Market Value 6-30-87 Deposits (Withdrawals) Change in Market Value	\$200.00 0.00 - 0.00
Market Value 6-30-88	\$200.00